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## AMSAR/SAO/R-10

# A SUPPLEMENTARY RDX/HMX PRODUCTS SITE SELECTION STUDY — ECONOMIC COST ANALYSIS

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AUGUST 1975

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**US ARMY ARMAMENT COMMAND**

**SYSTEMS ANALYSIS OFFICE**

**ROCK ISLAND, ILLINOIS 61201**

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was determined for these candidates. This was followed by risk and sensitivity analyses.

It was recommended, based on available data, that Hawthorne be rejected for economic reasons and that Newport and McAlester be subjected to further analysis based on data other than economic criteria.



## SUMMARY

An economic analysis was undertaken to select a site for construction of RDX/HMX explosive products. Mobilization Levels II and III were considered for FY 1975 (retention) and FY 1976 through 1980 (modernization and expansion) to determine the need for expanded capacity. This investigation indicated the need for addition of one to three lines to produce RDX/HMX products.

For purposes of analysis, a four-line and a two-line facility were considered for production of Composition-B (Comp-B) exclusively and for other RDX/HMX products. A 13 year program period was considered--3 years of construction followed by 10 years of operation. Operating levels were varied throughout the operating period. The levels of operation varied from shutdown to maximum capacity. In all, 125 variations in the schedule for the 10 years of operation were investigated for each case of product mix and facility capacity. Newport Army Ammunition Plant (AAP), McAlester Naval Ammunition Depot (NAD), and Hawthorne NAD were the candidate sites. Newport AAP was previously chosen as the "best" location among another set of candidates; McAlester NAD and Hawthorne NAD were proposed as later considerations.

A ranking based on present value was determined for these candidate sites. This was followed by a risk analysis and sensitivity analysis. The present value analysis was based on 10% discounting of cash flows over the 13 year program period. The risk analysis was based on uncertainties in the cost estimates and was limited to a determination of risk of erring in choosing the least-cost site. The sensitivity analysis addressed variations in the major cost elements: construction, materials, labor, utilities, and transportation.

Newport AAP was ranked the least-cost site, based on the cost estimates; however, the selection of Newport incurred a significant risk of error when compared with McAlester NAD. Hawthorne NAD was not in contention when compared with either Newport or McAlester. There was virtually no risk in choosing either of these sites over Hawthorne NAD. The risk of erring in the choice of Newport was further illustrated in the sensitivity analysis. Variation of 5% in construction costs and 10% in operating costs could reverse the order of ranking of Newport and McAlester in selected cases. It was recommended, based on the data available, that Hawthorne NAD be rejected as a candidate site based on economics and that the selection between Newport AAP and McAlester NAD be subjected to further analysis based on other data than the economic criteria.

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## DISCUSSION OF PROBLEM

### BACKGROUND

In the spring of 1973 the US Army Munitions Command - Operations Research Group (MUCOM-ORG) was requested by SMUAP-MT to conduct an economic/cost analysis of various candidate sites for construction and operation of a Composition-B (Comp-B) facility. This facility was to have been designed to include four lines with a 7,500,000 lbs/mo/line capacity for production of Composition-B. In addition, only those sites which would have the potential to accomodate six lines, i.e., two additional lines, were considered as candidates. This study was completed by MUCOM-ORG and forwarded to SMUAP-MT on 2 July 1973.

The analysis resulted in excluding all but four of the proposed sites on the basis of cost and economics. Of the remaining sites-- Longhorn AAP, Lone Star AAP, Newport AAP, and Milan AAP -- Longhorn was determined to be the least-cost site. On the basis of these results the Comp-B Site Selection Committee evaluated these four sites on non-economic and non-quantifiable economic criteria. Milan and Lone Star AAP's were eliminated due to problems associated with water quality and availability. Employment, availability of fuel, and current production technology were among the factors used to differentiate Newport AAP and Longhorn AAP<sup>1</sup>. The committee then endorsed Newport AAP as the recommended location of the proposed facility.

As a result of local economic impact because of reduction of military related production and the emphasis on joint service coordination of ammunition facility programs, an interest in potential sites other than those adressed in the 1973 study was indicated. This interest was formalized on 4 October 1973, when the CG, US Army Armament Command (ARMCOM) directed that Naval Ammunition Depots (NADs) be considered as potential sites for this facility. The Industrial Management Division (AMSAR-PPI) responded by initiating a study which included McAlester NAD, Hawthorne NAD, and Crane NAD, as well as Newport AAP. The Systems Analysis Office (AMSAR-SA) was then requested to conduct an economic/cost analysis for selection among these sites of the location for the Comp-B facility. It was specified that the analysis conform to the original MUCOM-ORG study in basic assumptions and method. The result of this request is the contents of this report which varies from the earlier study only in scope and some changes in reporting format.

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<sup>1</sup>DF from Composition-B Site Selection Committee, Subject (SMAUP-MT-C): Site Selection for a 4-line expandable to 6-line (7.5 million pound per month per line) Composition-B facility, dtd 1 June 1973.

Although the specifications for the study were directed at selection of a site for locating a Composition-B facility, it was recognized that this directive might be in conflict with guidance set forth by the Department of Army<sup>2</sup>. The area of conflict was in determining the necessary requirements to justify expansion of Composition-B production capacity. As early as the first quarter of FY 74, it was noted that the expressed need for a Composition-B production base was being relaxed to two lines due to changes in quantity of rounds to be filled and the type of explosive used as fill, e.g., the incorporation of AMATEX for mobilization fill. With the publication of the Production Base Plan (PBP) for FY 75 (Retention Study)<sup>3</sup> and the proposed mobilization-expansion criteria of the Production Base Analysis (PBA) for FY 76-80<sup>4</sup>, the requirement for Composition-B facility expansion was eliminated. This resulted from the assignment of Composition-B production exclusively to Holston AAP.

Recognizing that Composition-B was only one, although the preponderant product dependent upon RDX availability, the total problem of RDX/HMX production capacity was examined. When the Composition-B production was assigned to Holston the mobilization production requirements for other RDX/HMX products were left partially unsatisfied. Based on current retention policy (FY 75 PBP)<sup>3</sup>, there is a deficiency of the order of four lines; however, the proposed modernization and expansion policy (FY 76-80 PBA)<sup>4</sup> reduces this deficiency to the order of two lines. Because of the changing requirements, products other than Composition-B were considered in this analysis as well as capacities of less than four lines.

#### PROBLEM STATEMENT

The Comp-B site selection study is to be expanded to consider Navy

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<sup>2</sup>Policy and Guidance for Preparation of Part 1 of the AMP, Change 1, (Para 9-4-2 DCSLOG), 18 June 1973.

<sup>3</sup>Production Base Plan for the FY 75 Planning Period, US Army Armament Command, Rock Island, Illinois, 31 Dec 1973.

<sup>4</sup>Production Base Analysis for the FY 76-80 Planning Period, US Army Armament Command, Rock Island, Illinois, (Currently in publication and subject to approval.)

Ammunition Depots as potential candidates for Comp-B production activity and perform an economic-cost analysis to aid in the selection of a site for construction of an RDX/Comp-B facility. This analysis is to be consistent with the analysis performed to support the original Comp-B site selection reported June 1973.

Evaluate the site selection problem in relation to changing mobilization requirements. This evaluation will consider the mix of RDX/HMX products as well as the facility capacity requirements.

#### SCOPE OF PROBLEM

° Sites Considered - Four candidate locations were specified for consideration in the study:

Newport AAP

McAlester NAD

Hawthorne NAD

Crane NAD

Crane NAD was eliminated as a potential site prior to start of the economic analysis because of negative response by the plant commander.

Mississippi Test Facility (MTF) was also included in the study to illustrate possible effects of expanding the number and location of the specified sites.

° Type of Facility - The facility was originally specified as a producer of Composition-B only. Subsequent analysis of Mobilization Requirements for the FY "76-80" time period led to consideration of a facility producing RDX/HMX products other than Composition-B.

° Facility Capacity - The original specification was for a four line capacity expandable to six lines. Each line was to be sized for a maximum production rate of 7,500,000 lbs of Composition-B or 4,500,000 lbs of RDX equivalent per month. The analysis of requirements led to further investigation of a two-line facility.

#### METHOD OF ANALYSIS

##### Requirements.

The planning for expansion of the munition production base is directed by the mobilization requirements. In general, the guidance provides that the base must be expanded to provide for Level II requirements and may be expanded to provide for Level III

requirements<sup>2</sup>. The requirements for Composition-B and other RDX/HMX products were extracted from the FY 75 PBP<sup>3</sup> and from the PBA for FY 76-80<sup>4</sup> for these two levels. The Composition-B requirements could be obtained from a single schedule in these references. The requirement for the other RDX/HMX products, on the other hand, were composed of several schedules. The RDX/HMX content of these items were added together to determine the requirements for this product mix. The various compositions and their RDX/HMX content are outlined in Table 1.

TABLE 1. RDX/HMX PRODUCTS OTHER THAN  
COMPOSITION-B CONSIDERED

Explosive	RDX Content Percentage	HMX Content Percentage
Composition A3	91.7	95.0
" A4	97.0	
" A5	98.8	
" A6	86.0	
" C4	91.0	
Cyclotol 70/30	70.0	
PBXN201	83.0	
PBXN4	80.0	
PBXN5		

#### Site Selection.

##### General.

The investigation included analysis of costs peculiar to the candidate site and the associated cost of inbound and outbound transportation. Schematics of the material flow process are illustrated in Figures 1 and 2.

The construction and operational costs other than transportation are functions of the particular site under investigation and the facility labor, utility, and material requirements. The transportation costs, on the other hand, depend on the site investigated, the location of the materials, and destination of the products.

<sup>2</sup>Loc. Cit.

<sup>3</sup>Loc. Cit.

<sup>4</sup>Loc. Cit.



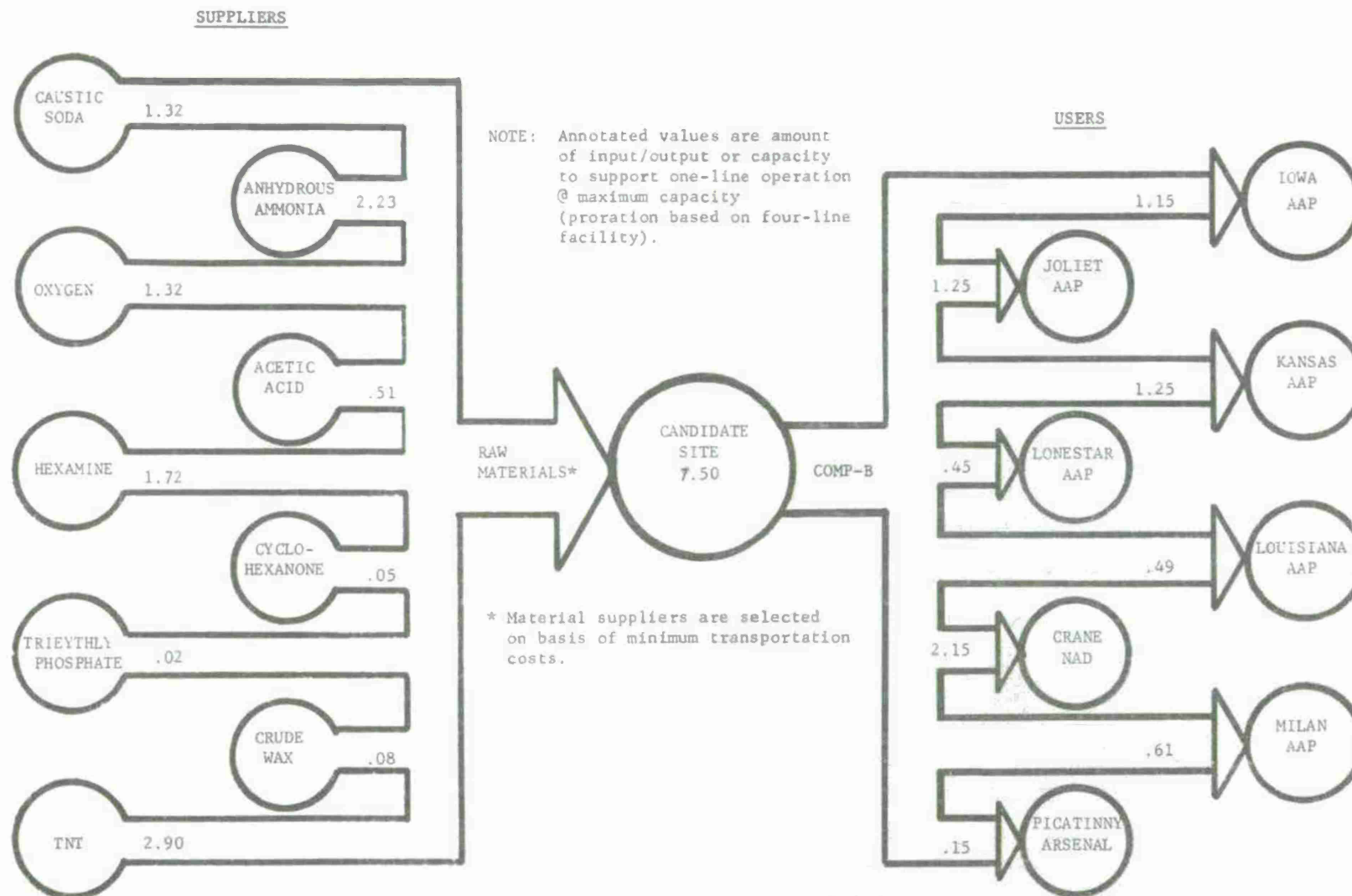


Figure 1. Schematic of Composition-B Model Distribution Network

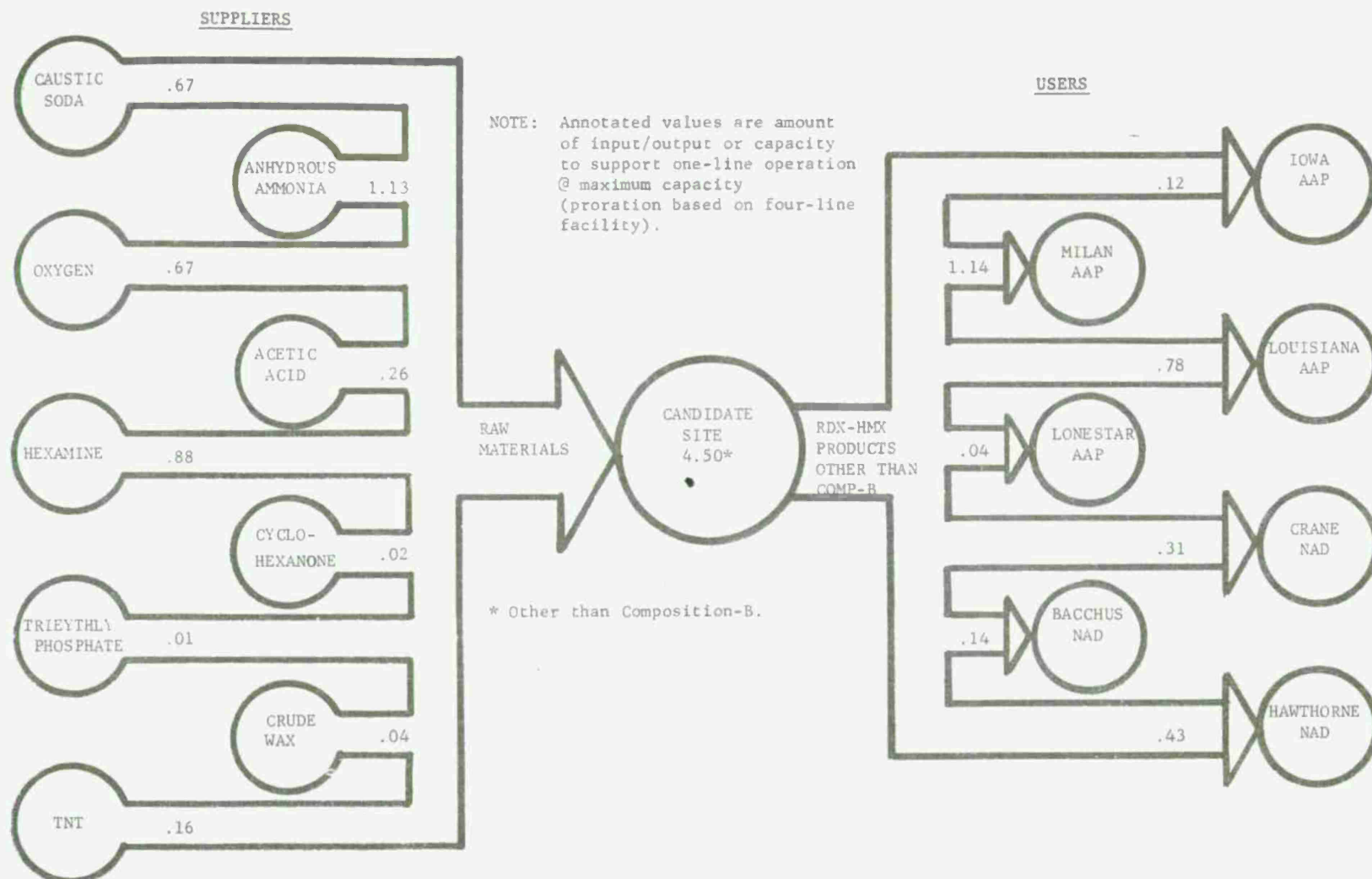


Figure 2. Schematic of RDX/HMX Products Model Distribution Network



The distribution of product was fixed among selected sites and, therefore, the outbound transportation was predefined for a given site and level of operation. The materials were selected from among several sources. Since the purchase cost of each material was undifferentiated among sources and the supply of material was unlimited within the scope of the problem, the selection of sources was determined exclusively by the minimum cost of transportation.

The study consisted of analysis of the following major cases:

<u>Facility Capacity</u>	<u>Product Mix</u>
o 4 lines	Composition-B only
o 2 lines	Composition-B only
o 4 lines	RDX/HMX Products*
o 2 lines	RDX/HMX Products*

\*other than Composition-B

Within each of these cases, 125 operation schedules were evaluated. These schedules were defined by dividing the 10-year duration of operation, i.e., years 3 through 13 (construction was assumed to take place in the first 3 years) into three time periods. These time periods consisted of years 4 through 7, years 8 through 10, and years 11 through 13. In each of these periods, operation was varied from 0 to full capacity in the following increments: 0%, 25%, 50%, 75%, and 100% of the maximum production rate. All combinations of these production levels among the three time periods were analyzed. Table 2 is an outline of this procedure.

The method followed was exhaustion enumeration of each site at all 125 levels of operation for each facility-product mix case. The computations are explained below. The program flow charts are illustrated in Figure 3.

TABLE 2. CALCULATIONS PERFORMED FOR EACH  
SITE-FACILITY-PRODUCT MIX CASE

Phase	<u>Construction</u> Amount of Total Investment Spent (Percentage)			<u>Operation</u> Level of Operation, Percentage of Maximum Capacity									
				A				B			C		
	1	2	3	4	5	6	7	8	9	10	11	12	13
Period-Year													
Level of Expenditure or Operation Considered	20%	40%	40%	100%				100%			100%		
				75%				75%			75%		
				50%				50%			50%		
				25%				25%			25%		
				0%				0%			0%		
Calculations	Fixed for each calculation			Each level with all combina- tions in B&C				Each level with all combina- tions in A&C			Each level with all combina- tions in A&B		

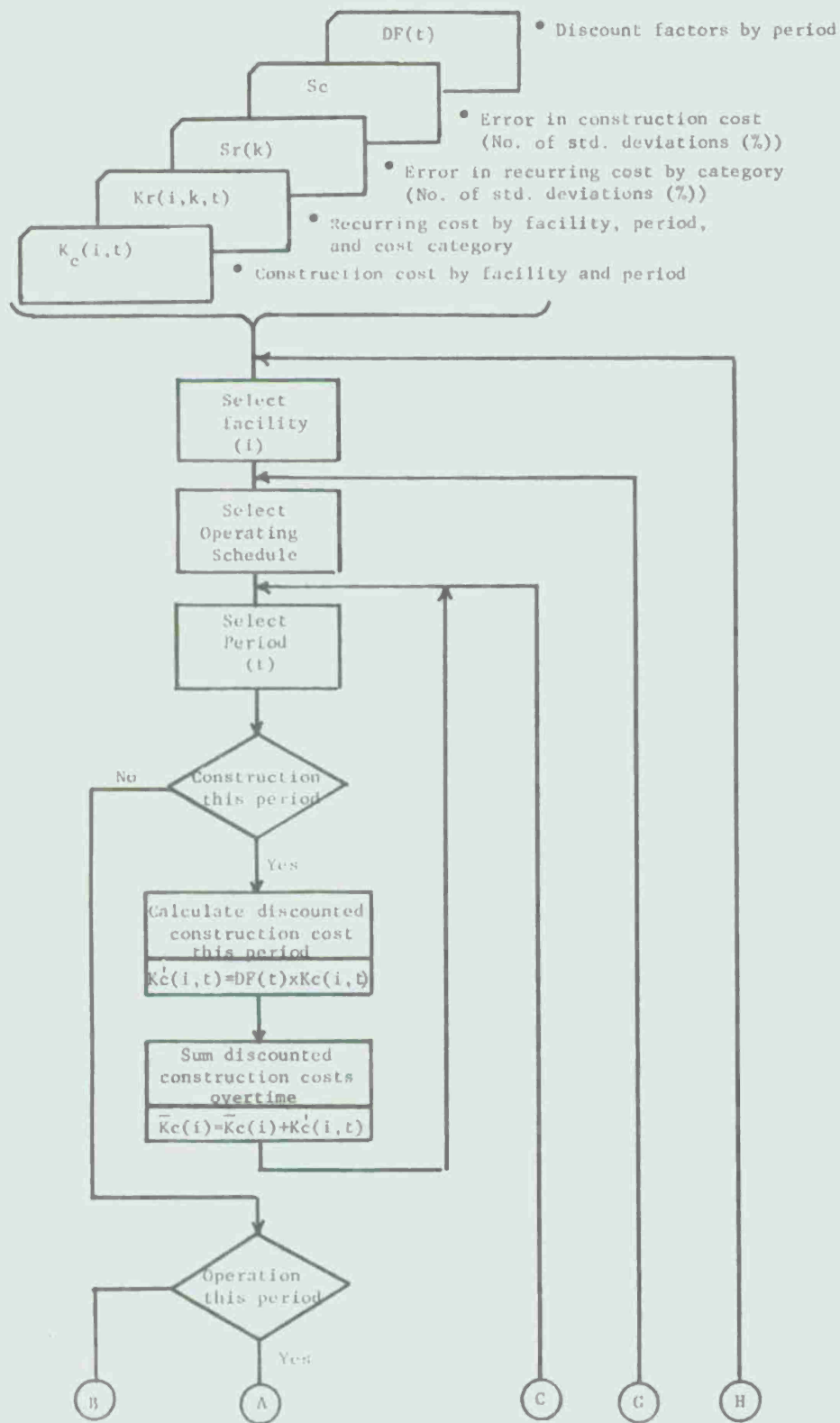


Figure 3. Generalized Flow Chart of Model (1 of 5)

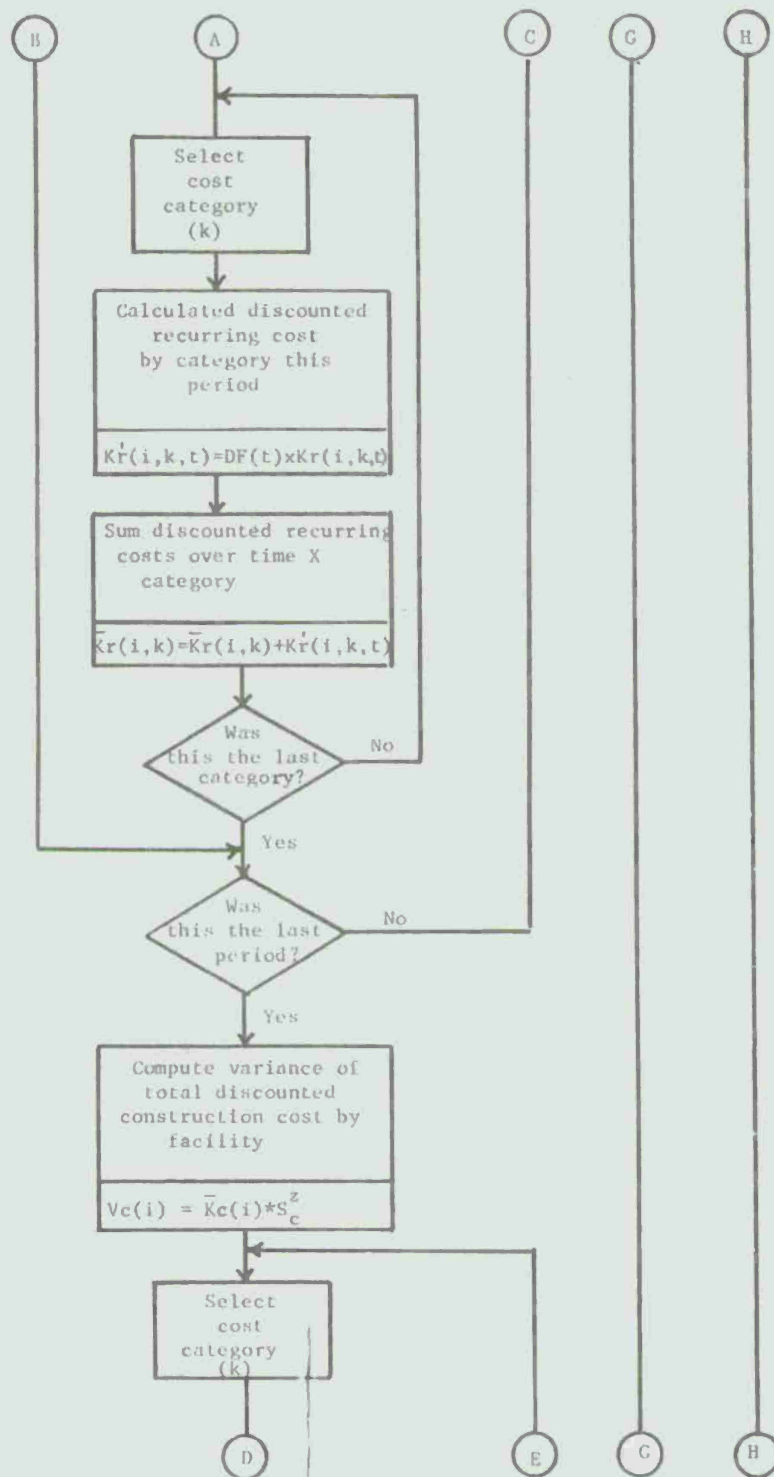


Figure 3. Generalized Flow Chart of Model (2 of 5)

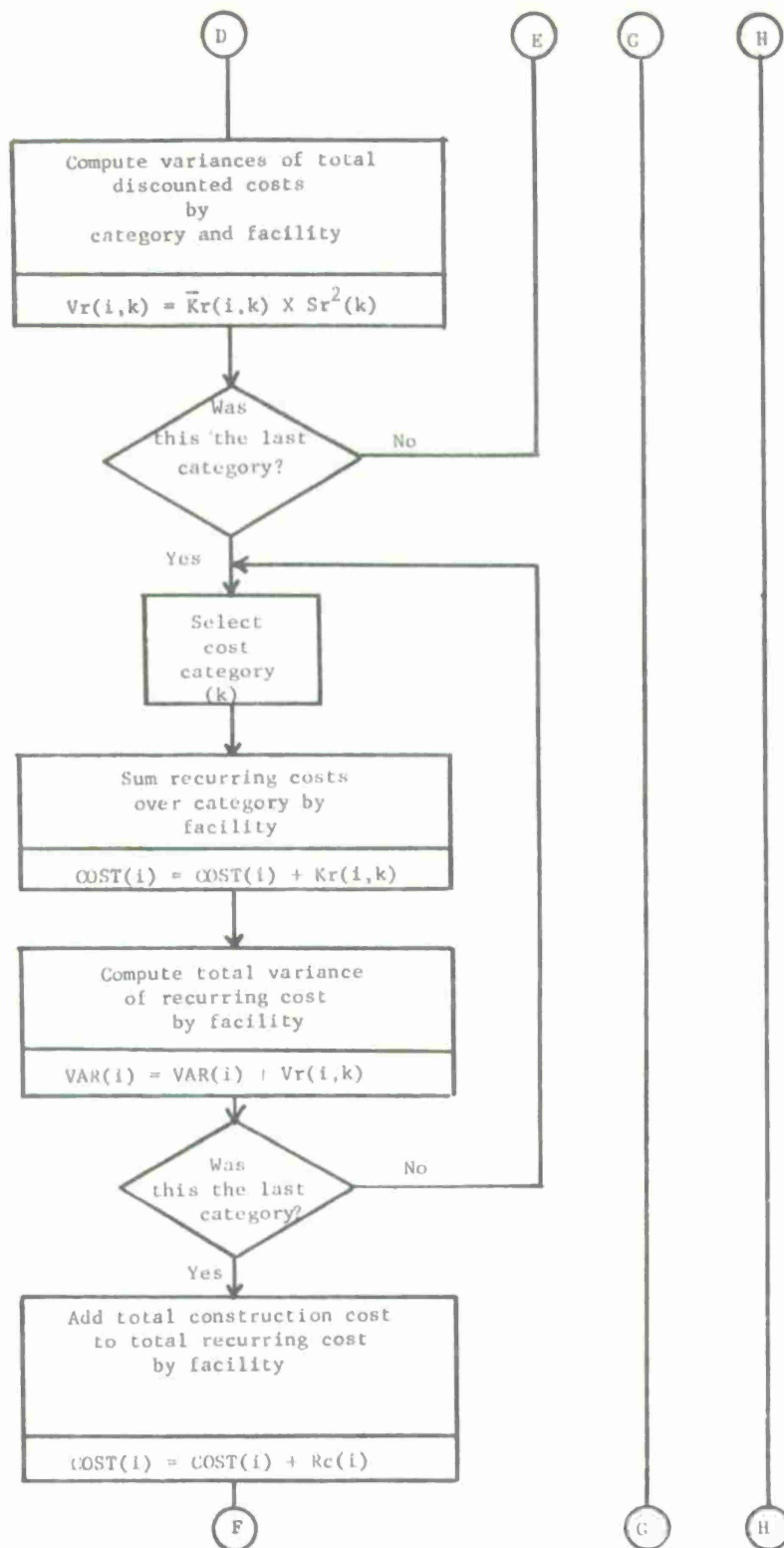


Figure 3. Generalized Flow Chart of Model (3 of 5)

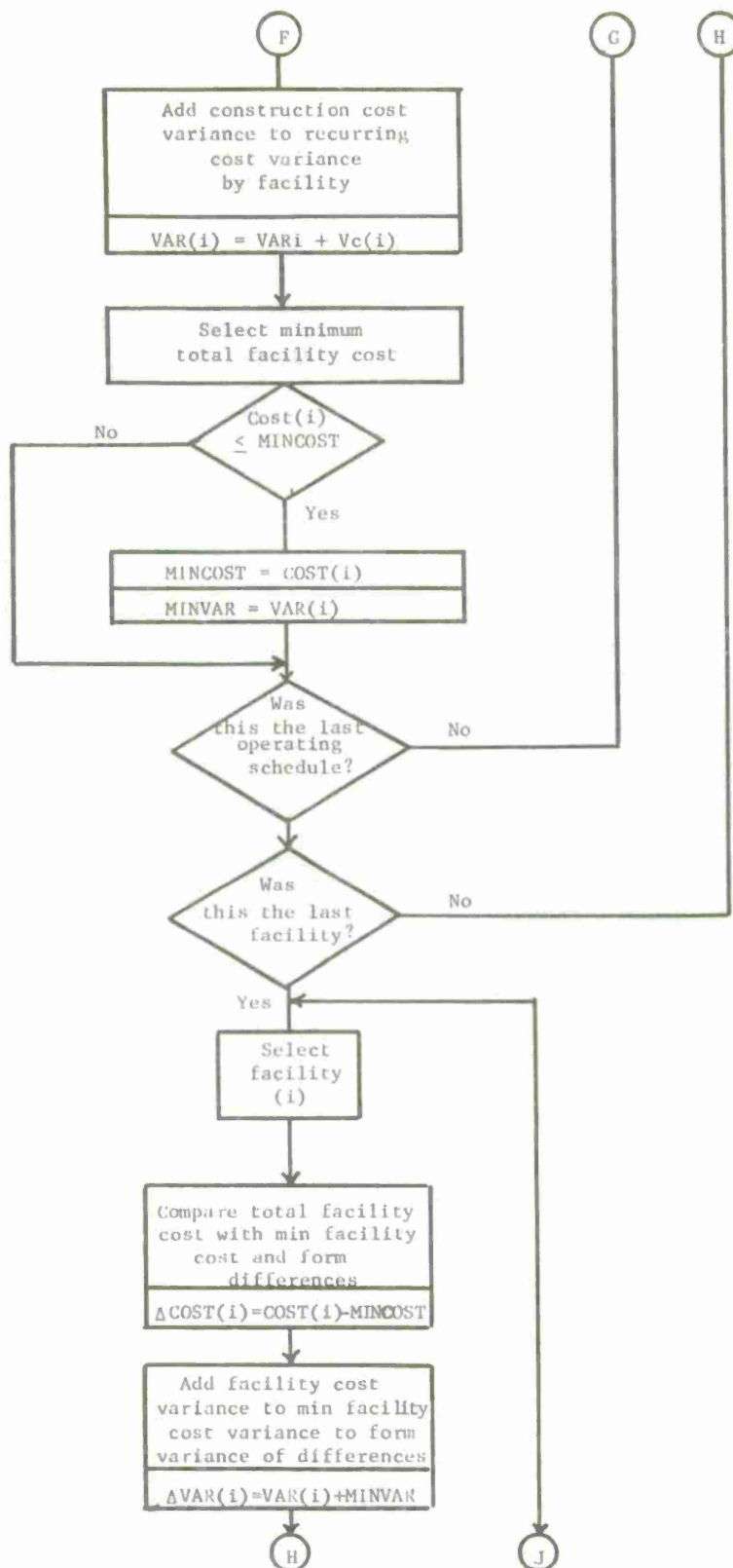


Figure 3. Generalized Flow Chart of Model (4 of 5)

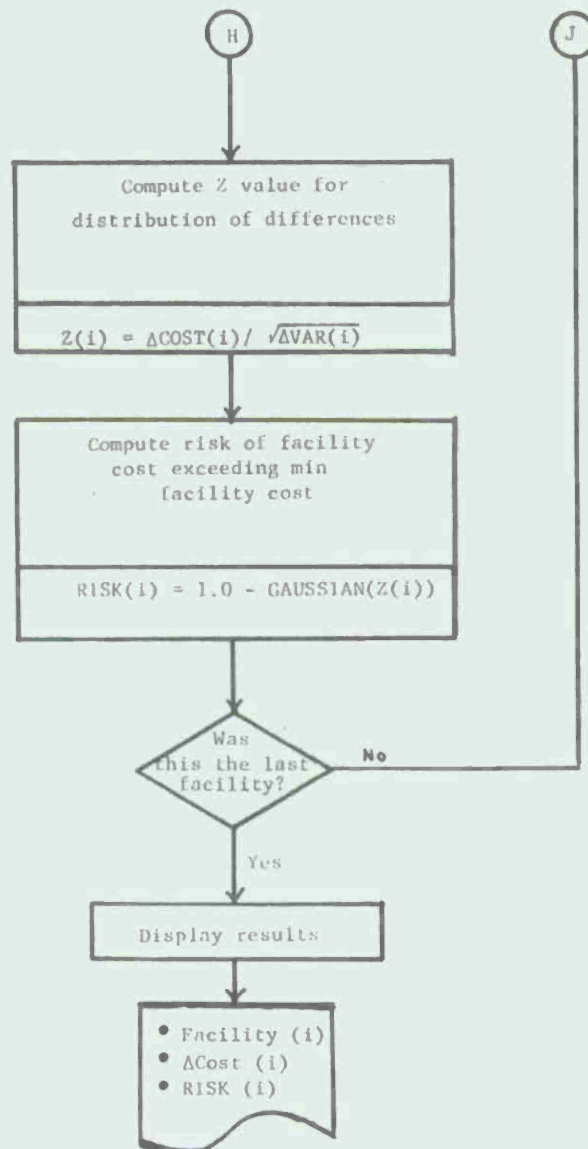


Figure 3. Generalized Flow Chart of Model (5 of 5)



### Model Logic.

Nominal Cost Ranking. The various sites were ranked according to present value of the total costs for various combinations of facility-capacity and product mix and for the 125 levels of operation. These costs were computed by addition of the point estimates assigned to each of the cost categories. The categories considered were as follows:

- ° Construction
- ° Materials (direct)
- ° Labor (direct and supervisory)
- ° Utilities (direct)
- ° Transportation (outbound and inbound)

The present value cost was expressed as:

$$C_{t,j} = \sum_{i \in I} C_{i,j} \quad \text{for all } j \in J \quad (1)$$

where

- $C_{t,j}$  = total present value cost at site/facilities
- $C_{i,j}$  = present value cost of category  $i$  at facility  $j$
- $I$  = set of cost categories
- $J$  = set of site-facilities

Risk Analysis (Cost). The risk of erring in the choice of the least cost site, if the site with the lowest present value cost is selected, was computed at various production levels for each facility-product combination. Candidate sites were compared, one at a time, with the site exhibiting the lowest present value cost. The risk associated with selection was dependent upon the uncertainties associated with the estimated costs. Since the degree of uncertainty was not explicitly provided as part of the input data, the level of uncertainty was assumed subject to the approval of the study action officer. A tolerance expressed as a plus or minus (+) value about the point estimate was assumed for each cost category. This tolerance was expressed as the fraction of the 95% confidence level. The normal distribution was assumed. The uncertainty in each individual cost component was formulated as a "statistical" variance computed as follows:

$$V_{i,j} = \left( \frac{C_{i,j} * f_i}{r} \right) \quad (2)$$

where

$C_{i,j}$  = present value cost of category  $i$  at site-facility  $j$ ,

$V_{i,j}$  = variance about cost category  $i$  at site-facility  $j$ ,

$f$  = tolerance about cost category  $i$ ,

$r$  = number of standard deviations associated with " $f$ ".

The variance about the total nominal cost at each site-facility was expressed as the sum of the variances, assuming independence of the various cost categories. This relationship was expressed as follows:

$$V_j = \sum_{i \in I} V_{i,j} \quad \text{for all } j \in J \quad (3)$$

where

$V_j$  = the variance about the nominal total cost at site-facility  $j$ ,

$V_{i,j}$  = the variance about cost category  $i$  at site-facility  $j$ ,

$I$  = the set of cost categories,

$J$  = the set of site-facility combination.

The probability distribution of the cost difference between two sites, one of which was the nominal least-cost site, was analytically determined. The mean value was expressed as the difference of the individual means as follows:

$$\Delta C^*_j = C_j - C^* \quad (4)$$

where

$\Delta C^*_j$  = cost difference of cost at site facility  $j$  less the cost at the least-cost site,

$C^*$  = mean (nominal) cost at the nominal least-cost site-facility,

$C_j$  = mean (nominal) cost at site-facility  $j$ .

The standard deviation about the mean cost difference ( $\Delta C^*_j$ ) was computed:

$$\sigma_{*,j} = \sqrt{\sigma_*^2 + \sigma_j^2 + 2\rho\sigma_*\sigma_j} \quad (5)$$

where

$\sigma$  = the standard deviation,

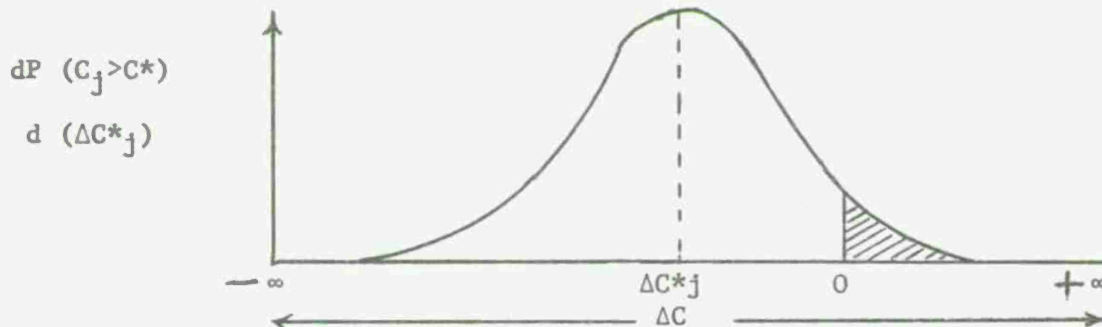
$\rho$  = the coefficient of correlation.

This expression reduces to:

$$\sigma_{*,j} = \sqrt{\sigma_*^2 + \sigma_j^2} \quad (6)$$

when the costs are assumed to be independent, i.e.,  $\rho=0$  and the expression  $\rho\sigma_*\sigma_j \rightarrow 0$

The risk of error in choosing the least-cost site if the nominal least-cost site is selected is then determined by integrating the probability density function as defined by parameters: mean =  $\Delta C^*_j$ , and standard deviation =  $\sigma_{*,j}$ , between the limits  $\Delta C = 0$  and  $\Delta C = +\infty$  (as shown below).



Sensitivity Analysis (Cost). The sensitivity analysis was conducted by varying the nominal values associated with the cost categories. As a computational expedient, the costs associated with the Newport AAP site were subjected to change. The changes were expressed as percentage changes in the Newport cost for a given category or categories. Newport was chosen as the reference for the sensitivity changes since it was nominally the least-cost site for all cases of facility capacity and product mix. After the adjustment of Newport costs, the calculation of nominal total cost analysis and risk were, again, conducted as described above.

Cost Considerations.

The construction cost was considered to be expended as follows:

- ° 20% in year 1
- ° 40% in year 2
- ° 40% in year 3

The remaining cost (recurring costs) were estimated at the maximum four lines production on an annual rate basis. These costs were prorated on the basis of production level for variations in operating level.

The costs were discounted at 10% per annum in accordance with AR 37-13<sup>5</sup>, to determine the present value as

$$PV = \sum_{t \in T} \frac{C_{j,t}}{2} \times \left[ \frac{1}{(1+i)^{t-1}} + \frac{1}{(1+i)^t} \right], \quad (7)$$

where

- $PV_{j,t}$  = present value of the cash flow for site-facility  $j$  based on mid-year computation of discounting,
- $C_{j,t}$  = the sum of all cost categories for site-facility  $j$  in time period  $t$ ,
- $i$  = the annual discount rate (in this problem  $i = 10\%$ ),
- $t$  = the time period,
- $T$  = the set of time periods, i.e., the time duration over which the project is evaluated (in this case  $T = 13$  years: 3 years construction and 10 years operation).

The time frame was based on a project go-ahead at  $t = 0$  and summed over the total project time period ( $T = 13$  years).

The averaged cost of material, exclusive of transportation costs, was considered site to site. However, since it was realized that there could be real, but unknown, differences in site-to-site costs of the various materials, a statistical variance was imposed on the average value to account for this uncertainty.

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<sup>5</sup>AR 37-13, Economic Analysis and Program Evaluation of Research Management, April 1973.

Although the material costs did not contribute to the ranking based on present value costs; they were considered in calculating these costs since they were also used in computation of risks. This rational was applied to all materials except TNT.

TNT is a government furnished material (GFM), and its cost was considered not to be variable site to site. For this reason, no variance was applied to its cost and it was not considered in either computation of risk or present value cost.

The above treatment applied only to the purchase cost of material. The cost of transporting material, including TNT, was considered in the computation of cost and a variance on transportation cost was assigned to account for its uncertainty in computing risk.

The ability to treat total transportation costs proportional to production was a decided advantage in simplifying the construction of the model. This treatment was possible since it was shown that the total transportation cost was highly correlated with level of operation. The sum of inbound and outbound transportation costs at various levels of operation was computed as a fraction of total transportation cost for each site, facility and product combination. This sum was compared to the associated fraction of maximum operation. The linear correlation coefficient was computed from the Product-Moment formula. The resultant coefficients are shown below, based on five observations: 0, 25%, 50%, 75%, and 100% production levels.

<u>Site</u>	<u>Product</u>	<u>Correlation Coefficient</u>
Newport AAP	Composition-B	.9988
McAlester NAD	Composition-B	.9999
Hawthorne NAD	Composition-B	.9999
Newport AAP	RDX/HMX Products*	.9958
McAlester NAD	RDX/HMX Products*	.9997
Hawthorne NAD	RDX/HMX Products*	.9695

\*exclusive of Composition-B

The confidence in the linearity and correlation with production level was subjected to the students "t" test. It was hypothesized that transportation costs and production level were not significantly correlated. For three degrees of freedom it was shown that the hypothesis was false at 1% significant level.

Based on the above computation and tests, the direct proportionality between transportation cost and production level was assumed.

The cost data used in the analysis of the two line facilities was estimated, using the four-line facility data as the basis for estimation.



The six-tenths power rule was used for scaling costs of chemical production facilities<sup>6</sup>.

i.e.,

$$\frac{C_2}{C_4} = \frac{Q_2}{Q_4}^{.6} \quad (8)$$

Maximum recurring costs were considered directly proportional to capacity,

i.e.,

$$\frac{C_2}{C_4} = \frac{Q_2}{Q_4} \quad (9)$$

where

C = cost value

Q = design capacity

2 = two-line facility

4 = four-line facility

The labor cost at each site was computed using the common requirements for direct (non-exempt<sup>7</sup>) and supervisory (exempt<sup>7</sup>) for a four-line facility and the direct and supervisory wage rates based on a forty hour week. Labor cost was considered to be proportional to production. The variation over and above that explained by this point estimate was considered by assigning a variance to account for uncertainty.

The cost of utilities was computed in a manner similar to labor cost. The computation of utility costs considered the common utility requirements and the utility rates applicable at the various sites for the four line facility. Utility costs were considered to be proportional to production. The variation over and above that explained by the point estimate of utility costs was considered by assigning a variance to account for this uncertainty.

#### Assumptions

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<sup>6</sup>Chemical Engineer's Handbook, 4th Edition, McGraw and Hill Publishing Co.

<sup>7</sup>PL93-259, Fair Labor Standard Act.

° Total cost variation from site to site are function of the following cost categories:

- ° Construction
- ° Materials (direct)
- ° Labor (direct and supervisory)
- ° Utilities (direct)
- ° Transportation (inbound and outbound)

° The process and the related labor, material and utility requirements would be equal among all sites.

° Chemicals are available at the location of the facility and transportation costs are insignificant except for those with limited producers; in which case, transportation costs are considered.

° The relative differences between recurring costs would not vary with time.

° Variations of  $\pm 10\%$  of the nominal value for construction, material, labor, and utility and  $\pm 15\%$  for transportation are sufficient to describe the uncertainty in these estimates at 95% confidence.

° All recurring costs are directly proportional to level of production for a given site-facility-product combination (see above discussion of Cost Consideration).

° There is no terminal values of the facilities.

#### DATA

Mobilization Requirements were obtained for Level II and Level III from the FY 75 PBP,<sup>3</sup> and advanced information from the FY 76-80 PBA<sup>4</sup> was obtained from AMSAR-PPI-W.

The facility parameters are:

- ° line capacity (output)
- ° staffing (input)

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<sup>3</sup>Loc. Cit.

<sup>4</sup>Loc. Cit.



- ° utilities (input)
- ° material (input)

They were defined for a Composition-B and for other RDX/HMX products by AMSAR-PP-C via AMSAR-PP.

Cost data was obtained from various sources as described in Table 3. This cost data was applied to the facility parameters and the resultant study costs inputs are presented in Table 4 through 7 for the various product-facility-location combinations.

Detailed description of the data can be found in Appendix A.

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TABLE 3. DATA SOURCES

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- ° Construction Costs

prepared for COE, Omaha District Office by A. M. Kinney, Inc.

- ° Material Costs

extracted from "Chemical Marketing Report", July 22, 1973  
(except for Oxygen)

- ° Utility Costs

provided by Plant Operators/Contractors

- ° Labor Costs

provided by Plant Operators/Contractors

- ° Transportation Costs

provided by AMSAR-TMG (General Traffic Division)

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TABLE 4. COMPOSITION-B SITE SELECTION--FOUR-LINE CAPACITY--INPUT TO MODEL (Cost Given For Operation @ 100% Capacity)

Site Cost Category		Newport AAP	McAlester NAD	Hawthorne NAD
Construction	\$M	656.85	678.71	989.74
Materials	\$M/ YR	55.87	55.87	55.87
Utilities	\$M/ YR	14.48	15.68	16.40
Labor	\$M/ YR	12.04	12.68	13.11
Transportation	\$M/ YR	7.41	10.73	26.65

TABLE 5. COMPOSITION-B SITE SELECTION--TWO-LINE CAPACITY--INPUT TO MODEL (Costs Given For Operation @ 100% Capacity)

Site Cost Category		Newport AAP	McAlester NAD	Hawthorne NAD
Construction	\$M	433.35	447.58	652.98
Materials	\$M/ YR	27.94	27.94	27.94
Utilities	\$M/ YR	7.24	7.84	8.20
Labor	\$M/ YR	6.02	6.34	6.55
Transportation	\$M/ YR	3.70	5.36	13.32

TABLE 6. RDX/HMX PRODUCTS<sup>a</sup> SITE SELECTION--FOUR-LINE CAPACITY--INPUT TO MODEL (Costs Given For Operation @ 100% Capacity)

Site Cost Category		Newport AAP	McAlester NAD	Hawthorne NAD
Construction	\$M	656.85	678.41	989.74
Materials	\$M/ YR	40.76	40.76	40.76
Utilities	\$M/ YR	14.48	15.68	16.40
Labor	\$M/ YR	12.04	12.68	13.11
Transportation	\$M/ YR	5.47	6.11	12.46

<sup>a</sup>Other than Composition-B

TABLE 7. RDX/HMX PRODUCTS<sup>a</sup> SITE SELECTION--TWO-LINE CAPACITY-COST DATA RESOLVED BY CATEGORY FOR INPUT TO MODEL (Costs Given For Operation @ 100% Capacity)

Site Cost Category		Newport AAP	McAlester NAD	Hawthorne NAD
Construction	\$M	433.35	447.58	652.98
Materials	\$M/ YR	20.38	20.38	20.38
Utilities	\$M/ YR	7.24	7.84	8.20
Labor	\$M/ YR	6.02	6.34	6.55
Transportation	\$M/ YR	3.23	3.05	6.23

<sup>a</sup>Other than Composition-B

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## DISCUSSION OF RESULTS

### REQUIREMENTS ANALYSIS

The comparison of mobilization requirements with assigned capacity was made for both product mixes: Composition-B and other RDX/HMX products for the two time frames: FY75 (retention)<sup>3</sup> and FY '76-80 (modernization and expansion).<sup>4</sup> The results of these comparisons are presented in Tables 8 through 11.

These comparisons indicate that there is no requirement for investment in Composition-B facilities as the Production Base is currently defined. Requirements for other RDX/HMX production facilities show need for investment from one to three lines based on the FY 76 thru 80 PBA. This is a reduction of two lines from FY 74 requirements.

In retrospect, previous PBA's did show requirements for additional Composition-B facilities. For example, the 1974 PBA requirements defined the need for two additional Composition-B lines.

TABLE 8. COMPOSITION-B REQUIREMENTS/  
CAPACITY FY 75 (RETENTION)

Mobilization Level	II	III
Requirements, $\bar{M}$ Lbs/ Mo.	38.77	53.70
Assigned Capacity, $\bar{M}$ Lbs/ Mo.	59.00	59.00
Deficit, $\bar{M}$ Lbs/ Mo.	excess	excess
Deficit, $\bar{M}$ Lbs/ Mo.	excess	excess

<sup>3</sup>Loc. Cit.

<sup>4</sup>Loc. Cit.

TABLE 9. COMPOSITION-B REQUIREMENTS/CAPACITY  
FY 76-80 (MODERNIZATION/EXPANSION)

Mobilization Level	II	III
Requirements, $\bar{M}$ LBS/Mo.	24.3	31.9
Assigned Capacity $\bar{M}$ LBS/Mo.	29.0	29.0
Deficit, $\bar{M}$ LBS/Mo.	excess	2.9
Deficit, Equivalent Lines	excess	0

TABLE 10. RDX/HMX PRODUCTS OTHER THAN COMPOSITION-B  
REQUIREMENTS/CAPACITY FY 75 (RETENTION)

Mobilization Level	II	III
Requirements, $\bar{M}$ LBS/Mo.	19.24	27.57
Assigned Capacity, $\bar{M}$ LBS/Mo.	4.21	4.21
Deficit, $\bar{M}$ LBS/Mo.	15.03	23.36
Deficit, Equivalent Lines	3	5



TABLE 11. RDX/HMX PRODUCTS OTHER THAN COMPOSITION-B  
 REQUIREMENTS/CAPACITY FY 75-80 (MODERNIZATION/  
 EXPANSION)

Mobilization Level	II	III
Requirements, $\bar{a}_M$ Lbs/ Mo.	24.1	31.3
Assigned Capacity, $\bar{a}_M$ Lbs/ Mo.	20.0	20.0
Deficit, $\bar{a}_M$ Lbs/ Mo.	4.1	11.3
Deficit, Equivalent Lines	1	3

<sup>a</sup>Equivalent RDX measure (HMX adjusted by 9/1)

## SITE SELECTION ANALYSIS

### General

The objective variable is the total discounted cost at each candidate location. The total discounted cost includes the construction, material, utilities, labor, and transportation costs. Results are presented for the two levels of facility capacity: four-line capacity and two-line capacity, and for two facility out-puts; Composition-B and other RDX/HMX products. In addition to the specified candidates-Newport AAP, McAlester NAD, Hawthorne NAD and Crane NAD; the Mississippi Test Facility Site (MTF) was considered to illustrate the sensitivity of results to possible expansion of the scope of the problem.

Presentation of results include the following:

Comparison of Cost Breakdowns

Comparison of Total Nominal (Expected) Costs

Risk of Not Choosing the Least Costly Location

Sensitivity of Total Cost and Risk to Variation in Individual Costs at Particular Locations

Table 12 is an outline of the results illustrated in this section.

### Elimination of Crane NAD

Crane NAD was eliminated from consideration because of negative response by Crane Management to an inquiry as to availability and interest in this project.

### Cost Breakdown (Table 13)

Results of the following six cases at Newport AAP are examined:

A four-line Composition-B plant at 100% production.

A four-line Composition-B plant at 50% production

A two-line Composition-B plant at 100% production

A four-line RDX/HMX plant at 100% production

A four-line RDX/HMX plant at 50% production

A two-line RDX/HMX plant at 100% production

TABLE 12. OUTLINE OF ILLUSTRATED RESULTS

Subject	Capacity (lines)	Operating Level(s)	Duration of Operation (years)	Products		Sites				Remarks  Note #	Illustration
				RDX-HMX	Comp-B	Hawthorne	McAlester	Newport	Other		
Cost	2,4	2,4	10	X	X	X	X	X			Table 13
<del>Breakdown</del>											
39 Cost Comparison	4	1,2,3,4	10		X	X	X	X			Figure 4
	2	1,2	10		X	X	X	X			Figure 5
	4	1,2,3,4	10	X		X	X	X			Figure 6
	2	1,2	10	X		X	X	X			Figure 7
	2,4	1,2,3,4	10	X	X			X			Figure 8
	4	1,2,3,4	10	X			X	X	X	1	Figure 9
Risk Analysis	4	1,2,3,4	4,7,10	X	X	X	X				Figure 10
	2	1,2	4,7,10	X	X	X	X				Figure 11
	2,4	1,2,3,4	10	X	X	X	X				Figure 12
	4	1,2,3,4	10			X	X	X			Figure 13
Sensitivity Analysis	4	1,2,3,4	10			X	X			2	Figure 14
	4	1,2,3,4	10			X	X			3	Figure 15
	4	1,2,3,4	10			X	X			4	Figure 16

Note 1 expansion of problem to include MTF

Note 2 variation in construction cost

Note 3 variation in sum of recurring cost

Note 4 variation in individual recurring cost

TABLE 13. BREAKDOWN BY COST CATEGORY FOR VARIOUS TYPES OF FACILITIES AND OPERATING LEVELS--TEN YEARS  
CONTINUOUS OPERATION, PERCENT OF TOTAL PROJECT COST AT NEWPORT AAP (DISCOUNTED 10% PER ANNUM)

FACILITY TYPE & OPERATION	Product	COMP-B	COMP-B	COMP-B	RDX/HMX	RDX/HMX	RDX/HMX
	Capacity	4 Line	4 Line	2 Line	4 Line	4 Line	2 Line
	Operating Level	4 Line (100%)	2 Line (50%)	2 Line (100%)	4 Line (100%)	2 Line (50%)	2 Line (100%)
COST  CATEGORIES	Construct'n	56.27	77.02	62.98	61.06	75.82	67.44
	Materials	27.21	17.41	23.04	21.52	13.36	18.00
	Utilities	7.05	4.51	5.97	7.65	4.75	6.39
	Labor	5.86	3.75	4.96	6.36	3.95	5.32
	Transpt'n	3.61	2.31	3.05	3.42	2.12	2.85
	TOTAL	100.00	100.00	100.00	100.00	100.00	100.00

The proportional relationship to total discounted cost of each category for the six cases are presented. This breakdown indicates that construction costs are preponderant, in all cases being greater in magnitude than the sum of all other costs. The selection of the least costly site is heavily influenced by construction costs.

Of the remaining recurring costs, the cost of materials is the greatest in magnitude, exceeding the sum of the remaining recurring costs. Transportation cost is least in magnitude at approximately 3% or less of the total cost.

The construction cost and recurring costs were quantitatively and individually examined in the sensitivity analysis.

#### Ranking of Present Value Costs

The three specified candidate sites were compared on the basis of present value costs for various levels of operation, facility capacity and type of product. Examination of Figures 4 through 7 reveal that Newport AAP is nominally the least costly location among those specified as candidates. However, the McAlester NAD cost exceeds the Newport AAP cost by only approximately 5%. Hawthorne NAD cost, on the other hand, exceeds the Newport AAP costs by approximately 50% at the zero production level (shutdown) to approximately 35% at the full production (four-line, 100%) level. This difference (Hawthorne NAD cost compared to Newport AAP cost) is of great enough significance to eliminate Hawthorne NAD from contention, as was shown more conclusively in the risk analysis. The relative cost differences between the four- and two-line capacity facilities and between Composition-B and other RDX/HMX products output are illustrated in Figure 8 for the Newport AAP and McAlester sites. The differences in cost for producing Composition-B and other RDX/HMX products ranges from 5% (based on the other RDX/HMX products) at full capacity (100% production four lines or two lines as applicable) to zero production (the shutdown condition). The latter result is obvious since the only costs considered were construction costs which were equal for facilities producing either product mix. The relative costs of the two-line facility was approximately 34% less than the costs of the four-line facility. This results from application of the 6/10 power rule for sizing the facility capacity.

In order to examine some possible results which might be obtained if the restriction on number and location of sites were relaxed, the Mississippi Test Facility (MTF) was compared with Newport AAP and McAlester NAD on the discounted cost basis. Figure 9 illustrates the relationship of the nominal (expected) costs among these sites. This comparison revealed that the MTF costs would be approximately 85% of the Newport AAP costs.

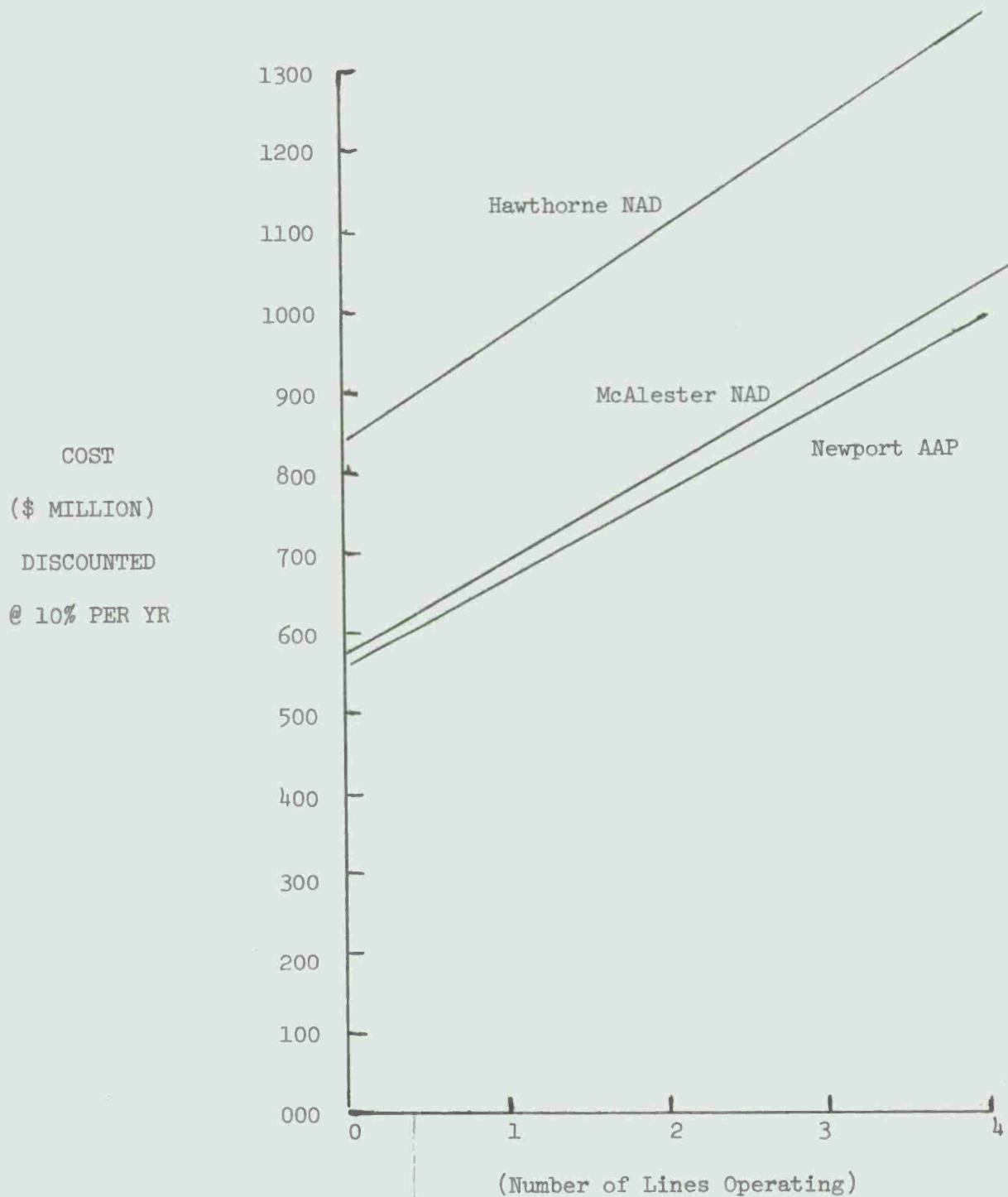


Figure 4. Composition-B Site Selection--Four Lines Expandable to Six Specified Candidate Sites (Nominal Discounted Cost for 13 Year Program)



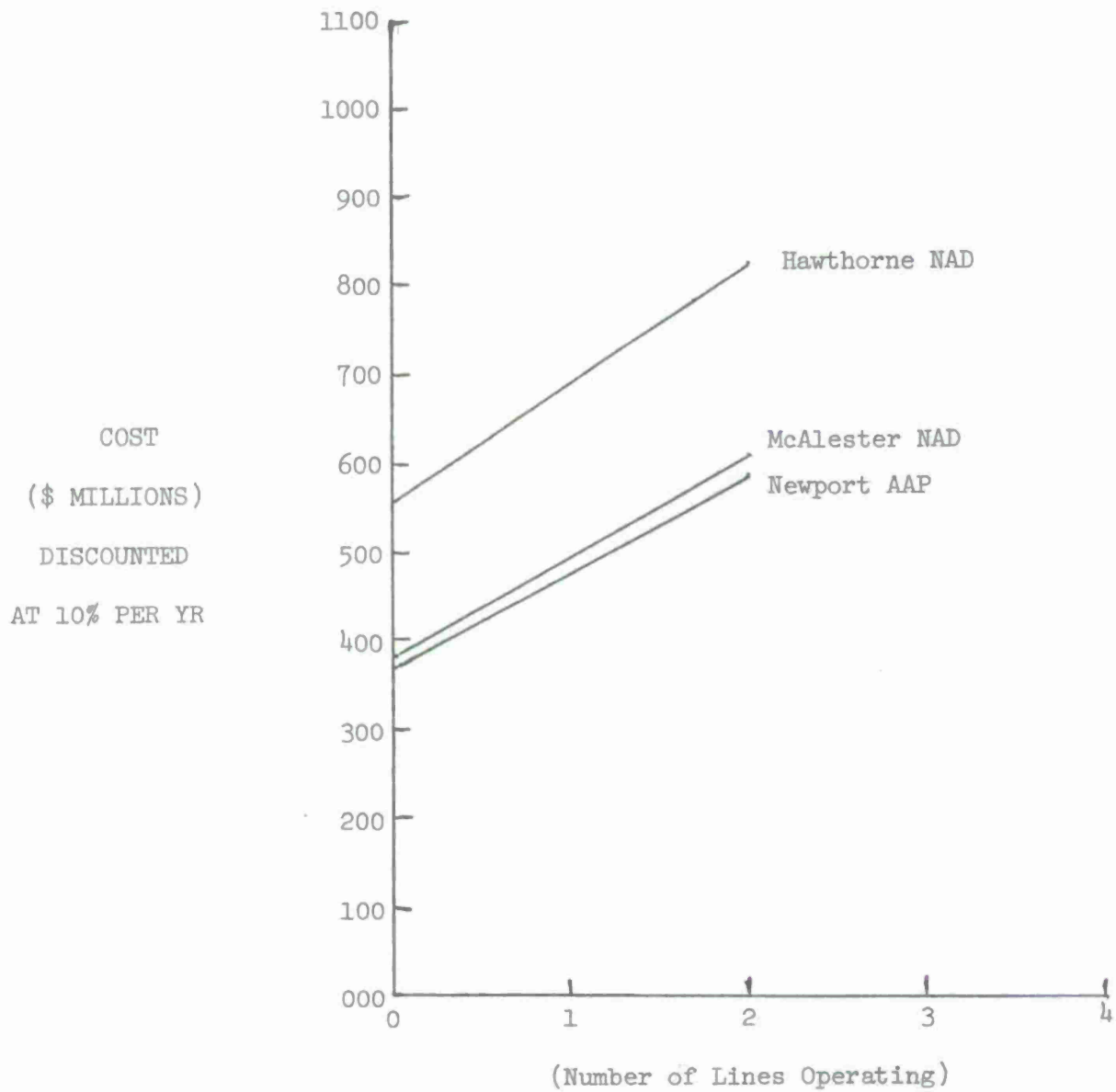


Figure 5. Composition-B Site Selection--Two Lines Expandable to Six Specified Candidate Sites (Nominal Discounted Cost for 13 Year Program)

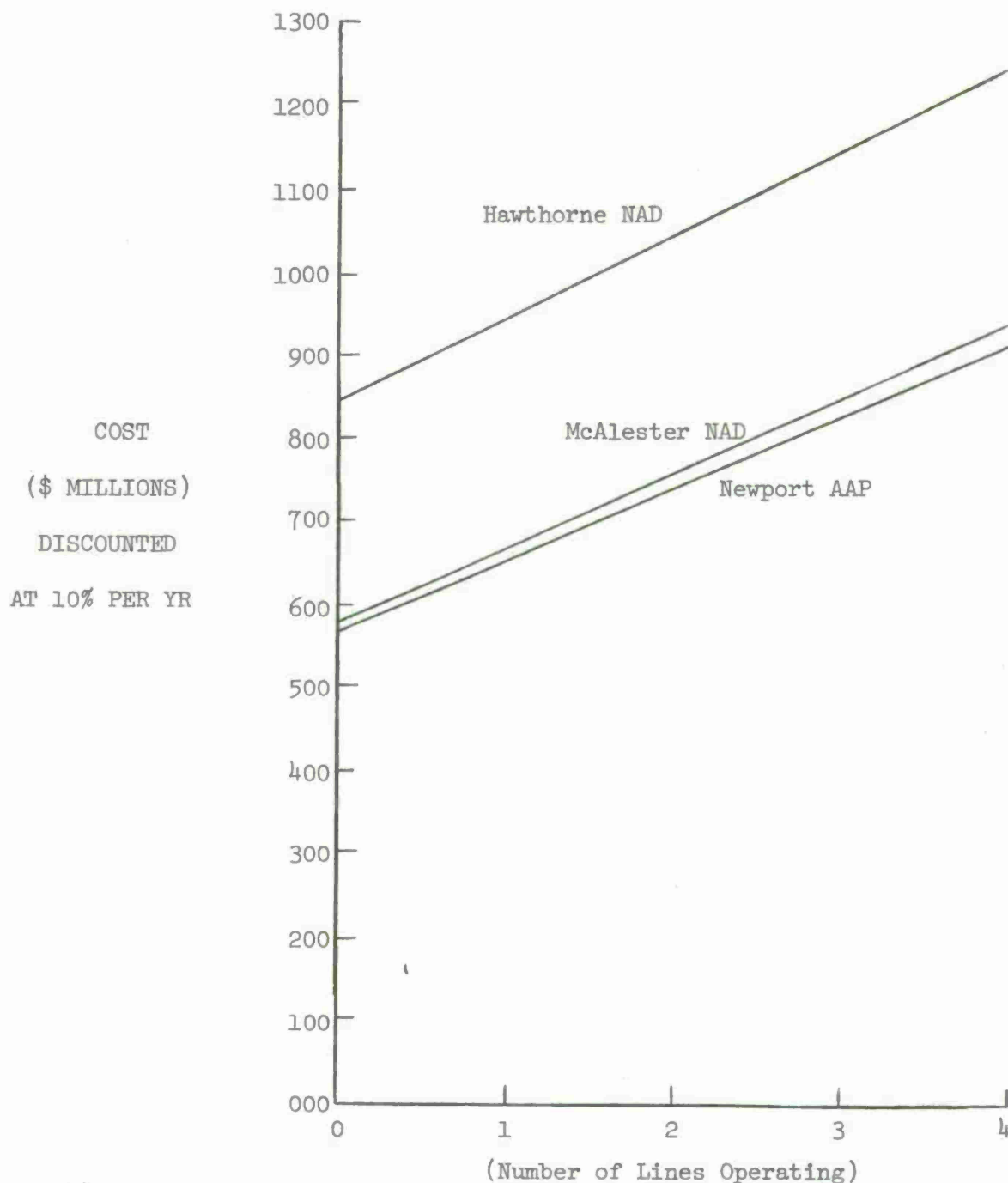


Figure 6. RDX/HMX Products\* Site Selection--Four Lines Expandable to Six Specified Candidate Sites (Nominal Discounted Cost 13 Year Program)

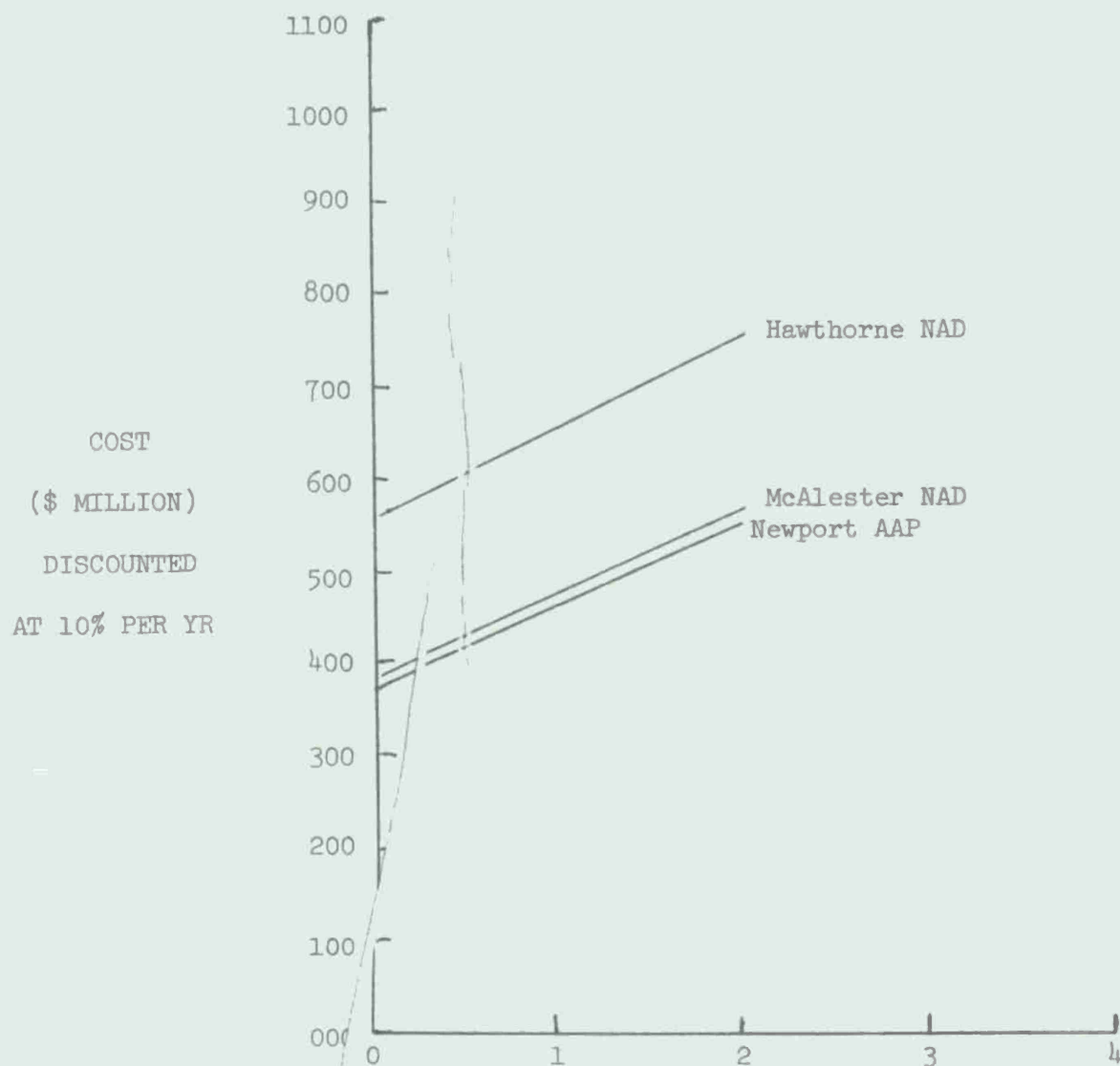


Figure 7. RDX/HMX products\* Site Selection--Two Lines Expandable to Six Specified Candidate Sites (Nominal Discounted Cost For 13 Year Program)

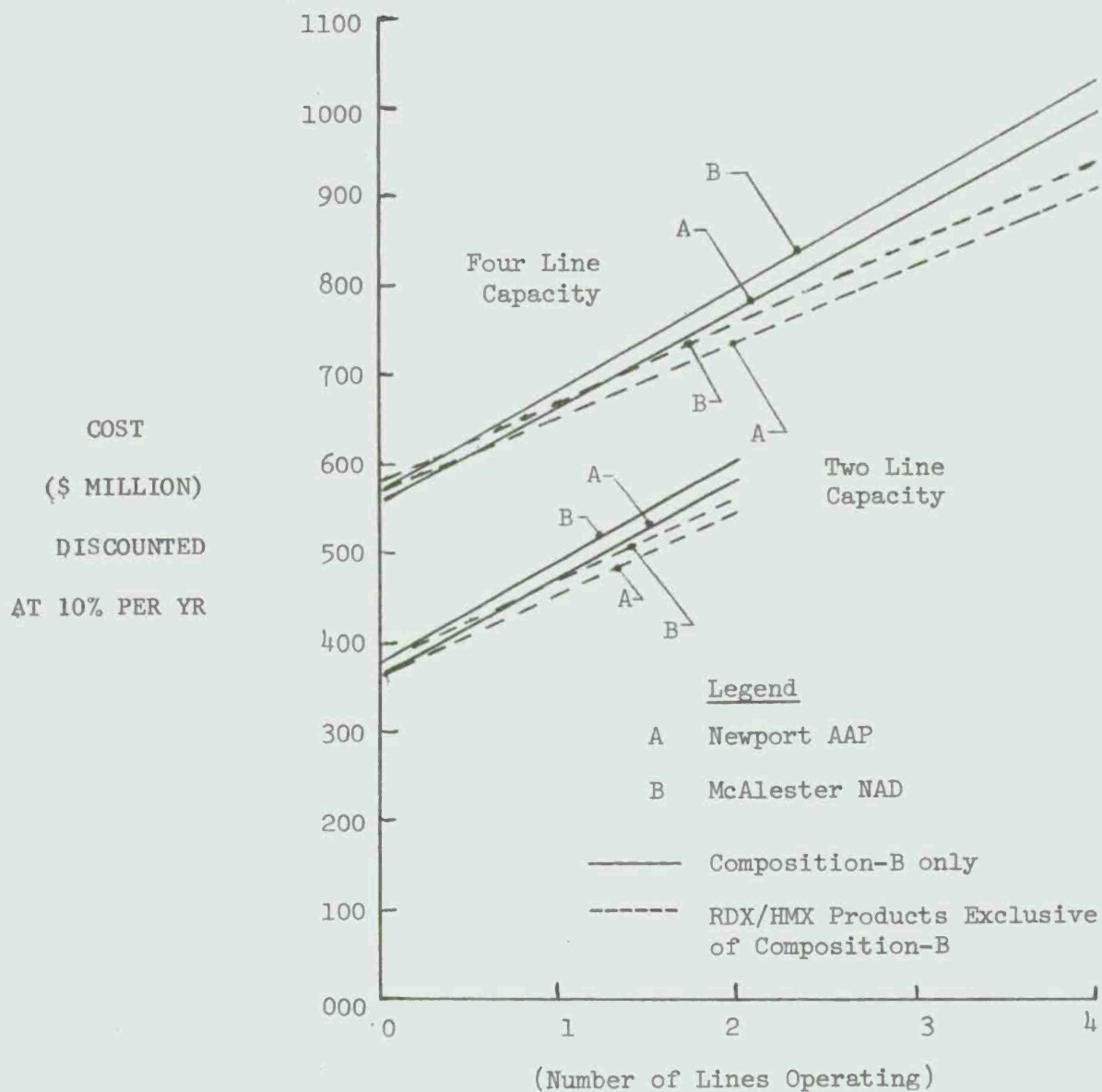


Figure 8. RDX/HMX Product Site Selection--Comparison of Four-Line and Two-Line Facilities--Composition-B Only and Other RDX/HMX Products (Nominal Discounted Cost for 13 Year Program)

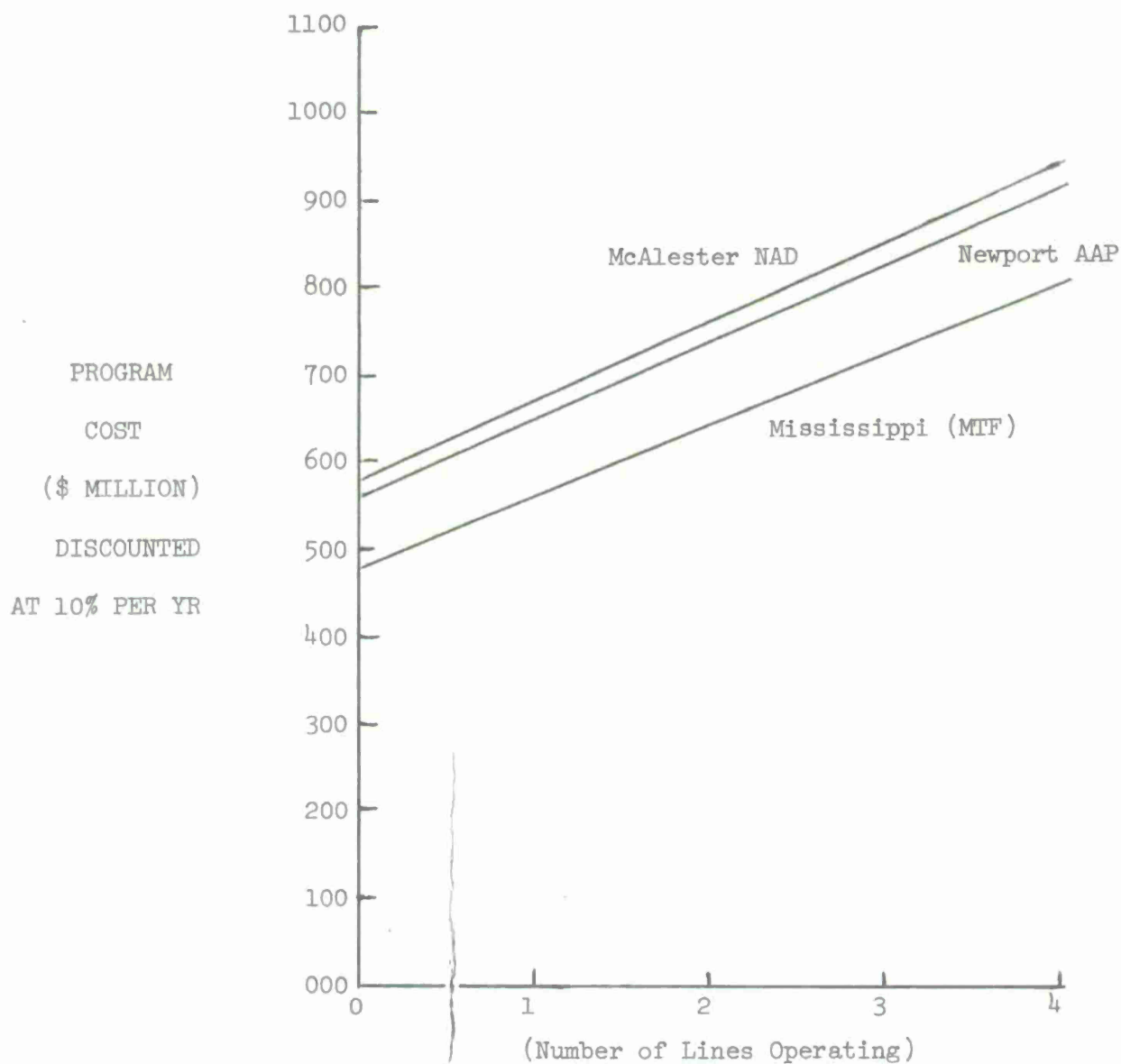


Figure 9. RDX/HMX Products\* Site Selection--Four Lines Expandable to Six Best Candidate Sites Compared With MTF (Nominal Discounted Cost for 13 Year Program)

(\*exclusive of Composition-B)

## Risk Analysis

The risk of erring in the choice of the least costly site if the nominal least-cost site was selected, (i.e., Newport AAP), was analyzed for McAlester NAD and Hawthorne NAD, each individually compared to Newport AAP. The results obtained indicated that there was virtually no risk in choosing Newport AAP over Hawthorne NAD on a cost basis. (Any risk incurred was beyond the precision of the Risk Analysis Program). On the other hand, the risk of choosing Newport AAP over McAlester NAD on a cost basis was 33% at zero production (shut down case) to approximately 16% at full production (100%) over 10 years for the four-line Composition-B facility as illustrated in figure 10. For manufacture and distribution of RDX/HMX products other than Composition-B the risk varied less and ranged from 33% to 28% for the same range of operating levels. Reduction in total output, characterized by the duration of operation parameter, showed some variation but was within the over-all range of risk discussed above. These results are also shown in Figure 10.

Figure 11 is a presentation of the same risk except that it is for the two-line facilities. Again the same characteristics were observed: a risk of approximately 33% at zero production, deteriorating with the level of operation.

The comparative risk of the four-line facilities and the two-line facilities are illustrated in Figure 12 for the two products. There is very little difference in risk incurred when level of output is considered as the independent variable.

If the restriction on the selection of sites were relaxed to include MTF, the risk of choosing the most costly site would be represented by Figure 13. In this case MTF was the reference site since it was nominally the least-cost site for the Newport, McAlester, MTF set. Newport AAP and McAlester NAD were compared with MTF, using the assumed uncertainties in the various costs. For low levels of operation (shut-down to two lines operating), there would be a significant risk of choosing MTF over Newport AAP as the least-cost site. This risk ranges from approximately 29% to approximately 10%. For the higher levels of operation over the major portion of the ten year period, the risk would be less than 10%. However, for shorter durations of operation, for example, four years the level of operation would go to three lines before the risk would decrease to 10%.

The risk of choosing MTF over Hawthorne NAD as the least-cost site is moderate, ranging from 9% at shutdown to less than 1/2% at full production over the ten year operation period.



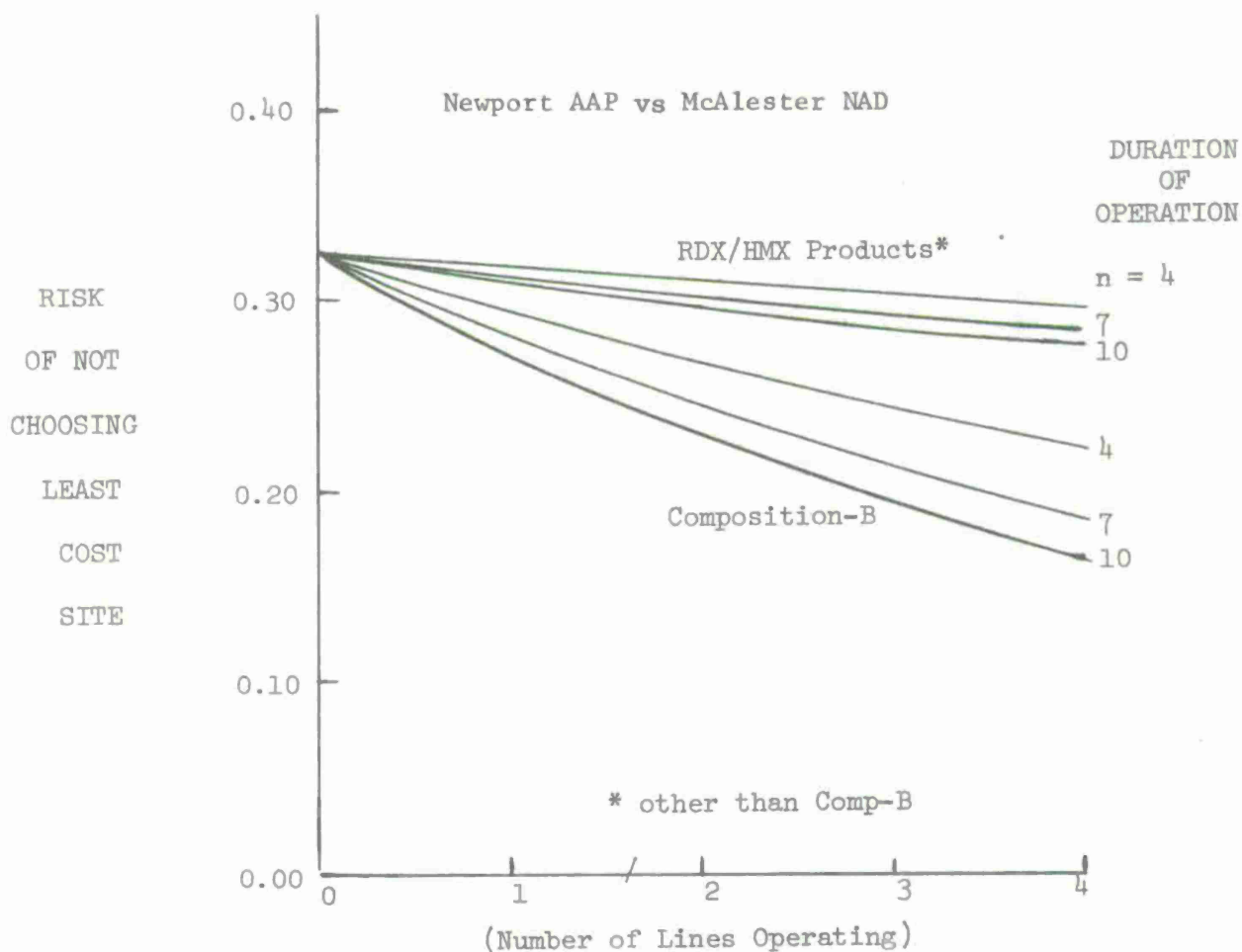


Figure 10. RDX/HMX Products Site Selection--Four Lines Expandable To Six--Risk of Erring in Choice of Least Cost Site If Newport AAP is Chosen Over McAlester NAD

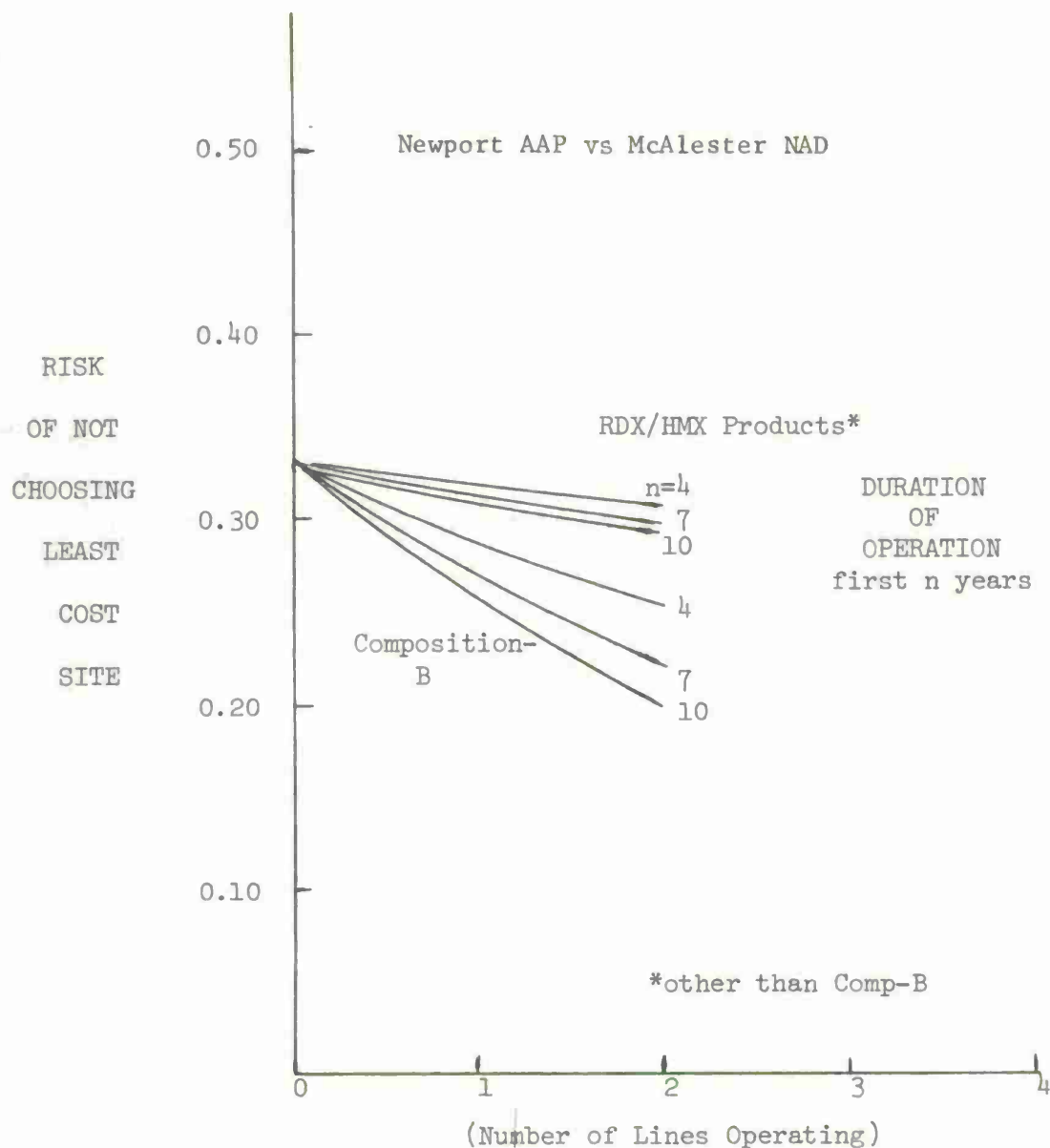


Figure 11. RDH/HMX Products Site Selection--Two Line Expandable to Six Risk of Erring in Choice of Least Cost Site If Newport AAP is Chosen over McAlester NAD

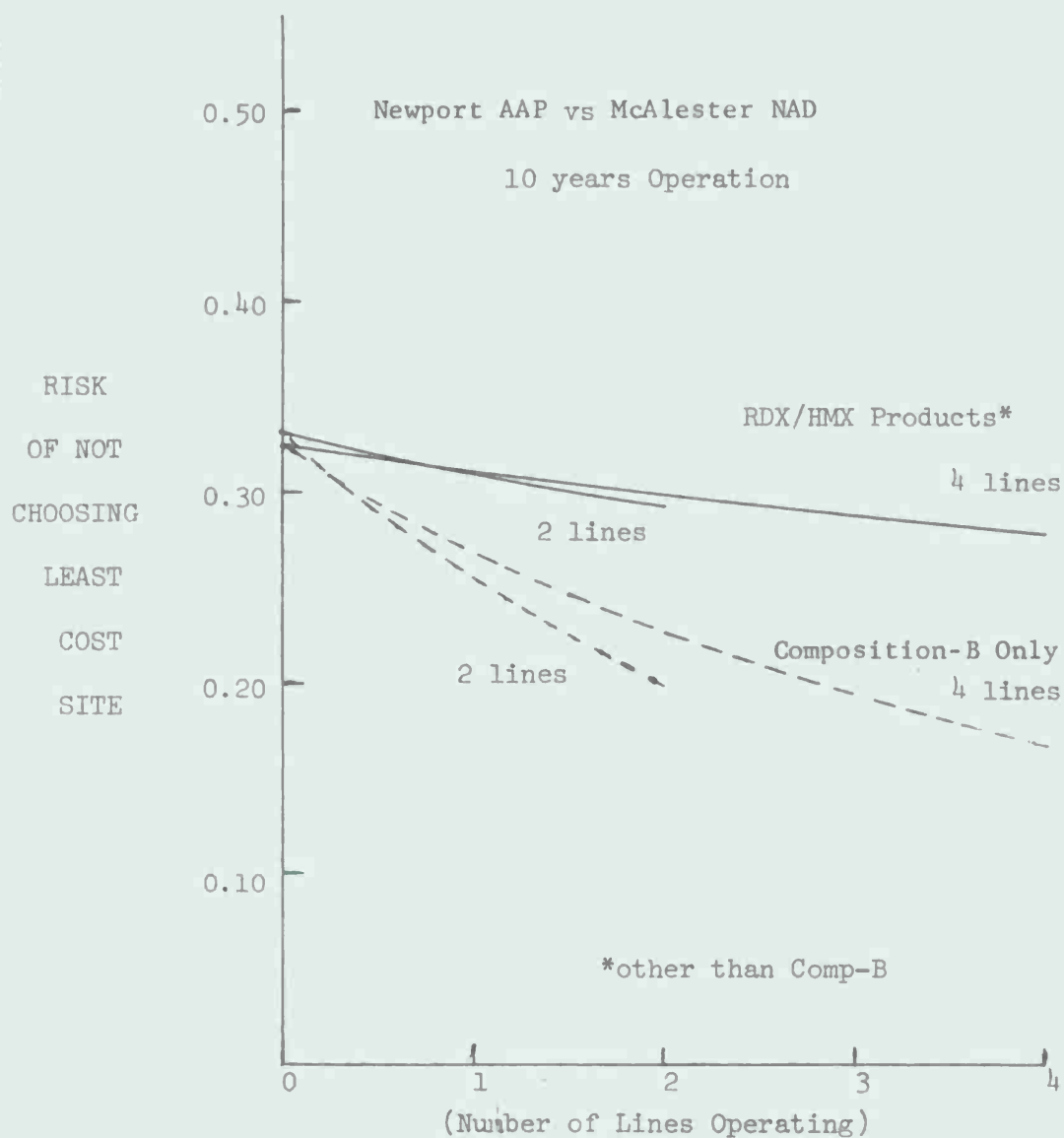


Figure 12. RDX/HMX Products Site Selection--Comparison of Four and Two Line Facility--Risk of Erring in Choice of Least Cost Site If Newport AAP is Chosen Over McAlester NAD

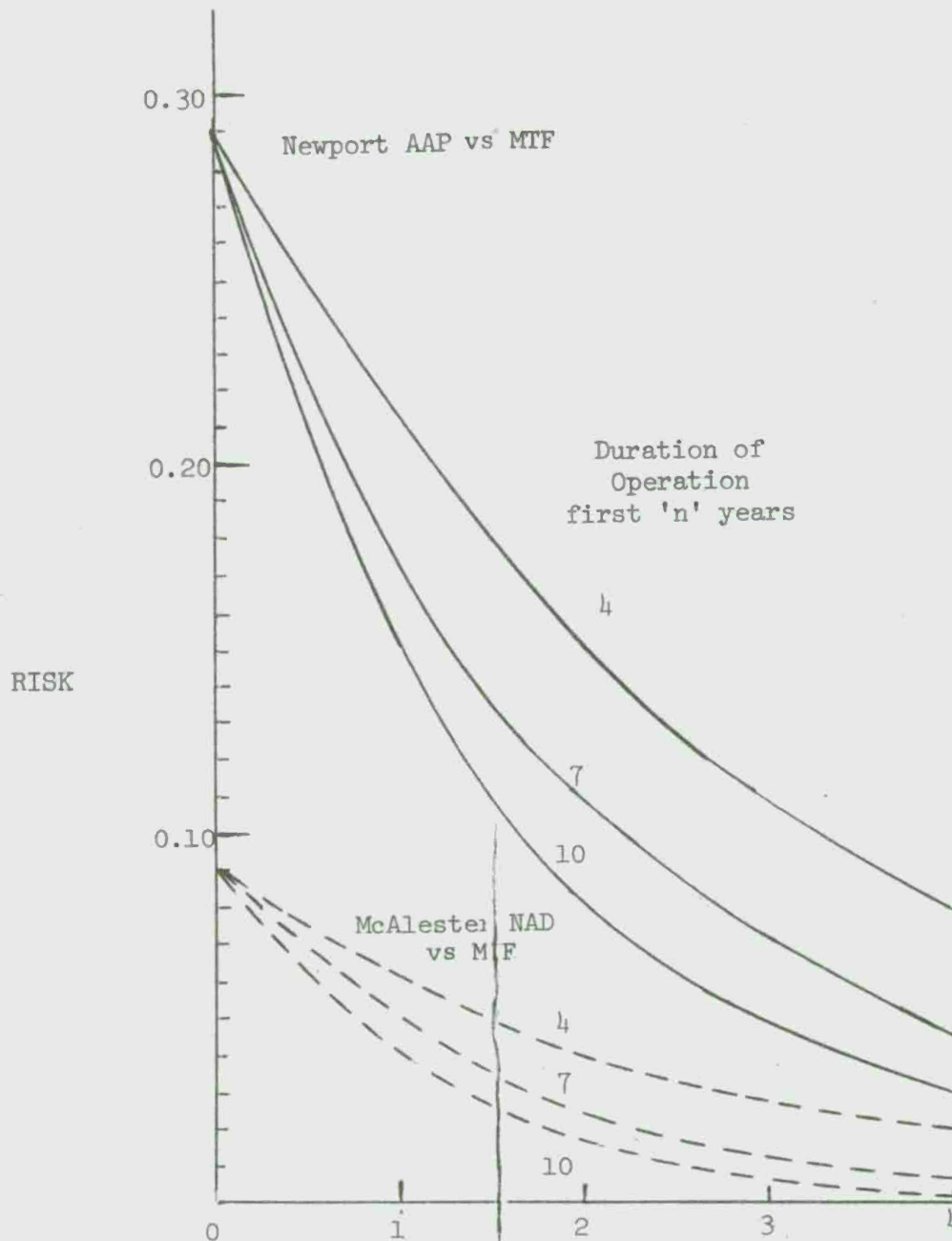


Figure 13. RDX/HMX Products Site Selection--Four Lines Expandable to Six--Risk of Erring in Choice of Least Cost Site If MTF is Chosen Over Either Newport AAP or McAlester NAD

### Sensitivity Analysis

The sensitivity and risk of selection to relative changes in the various cost categories was analyzed for the McAlester NAD vs Newport AAP comparison. The sensitivity of results to changes in construction cost is presented in Figure 14. Changes of 5% and 10% in favor of McAlester NAD and in favor of Newport AAP are expressed as plus (+) or (-) percentages of the Newport construction cost, respectively. A change in construction cost of 5% or greater in favor of McAlester NAD would reverse the nominal least-cost ranking resulting in McAlester NAD being the least cost site. The risk at the 5% change would result in essentially indeterminate selection criteria (i.e., 50% risk or 50/50 chance of either being the least costly). The change of 10% in favor of McAlester NAD would result in basically exchanging Newport AAP and McAlester NAD in both ranking and the associated risks.

A change of 5% or greater in favor of Newport AAP, however, would indicate that Newport AAP was a reasonably safe choice at a risk less than 10%.

If all recurring costs were changed in the same manner, the results would be as shown in Figure 15. A 10% change in total recurring cost in favor of McAlester NAD would change the nominal ranking of Newport AAP and McAlester NAD for operating levels greater than approximately two to three lines. In any event, any change in total recurring costs in favor of McAlester NAD would only make the selection between Newport AAP and McAlester NAD less certain.

Changes in individual recurring cost categories favorable to McAlester NAD at a level equal to 5% of the associated Newport AAP costs are presented in Figure 16. At this level of change in individual costs, there is no reversal in order between McAlester NAD and Newport AAP over the operating range considered. Among these costs at this level, only material costs changes would increase the risks calculated at shutdown conditions.

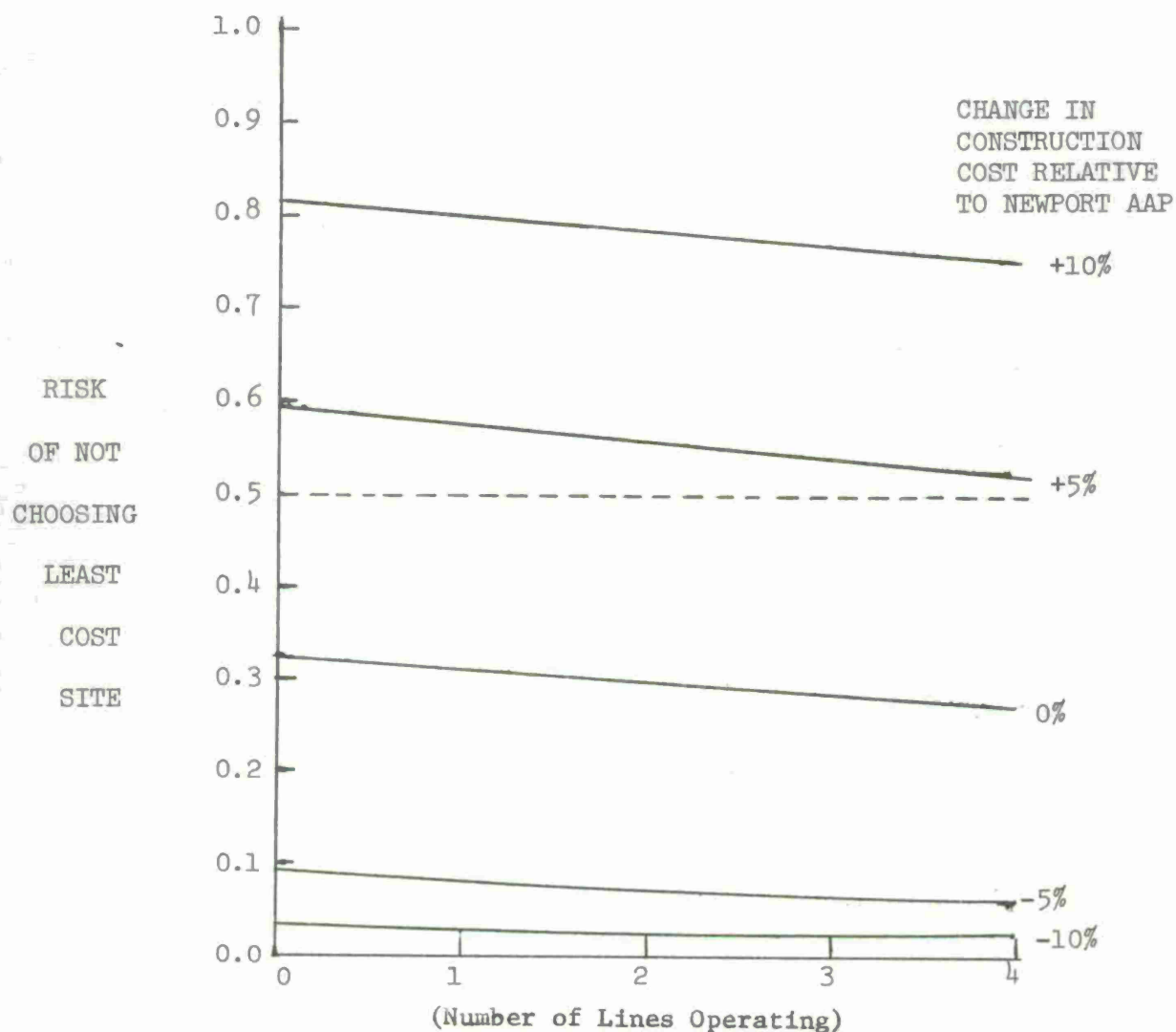


Figure 14. RDX/HMX Products\* Site Selection--Four Lines Expandable to Six--Sensitivity of Choice of Least-Cost Site to Changes in Construction Cost

(\*exclusive of Composition-B)



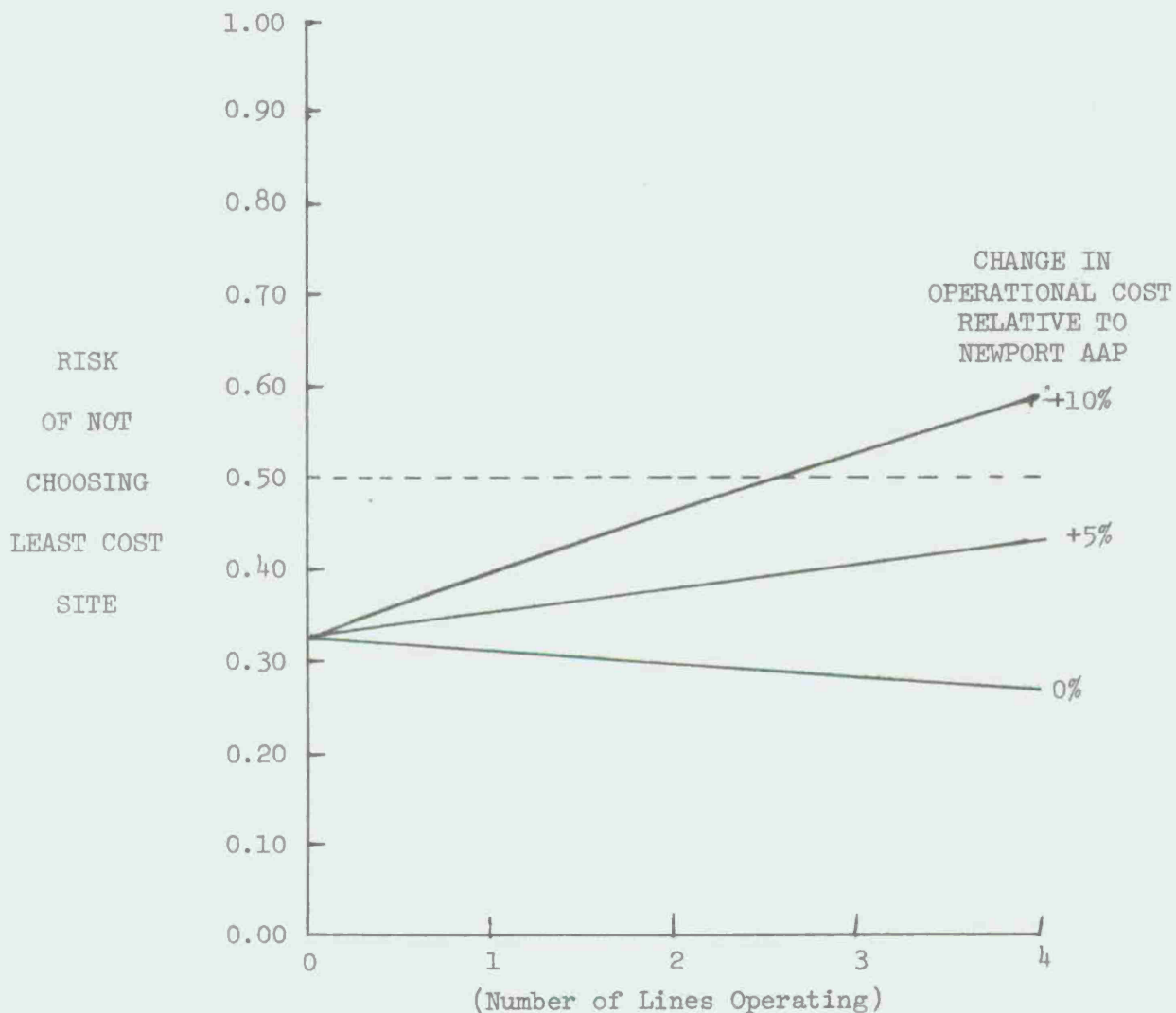


Figure 15. RDX/HMX Products\* Site Selection--Four Lines Expandable to Six--Sensitivity of Choice of Least Cost Site to Changes in Operational Cost

(\*exclusive of Composition-B)

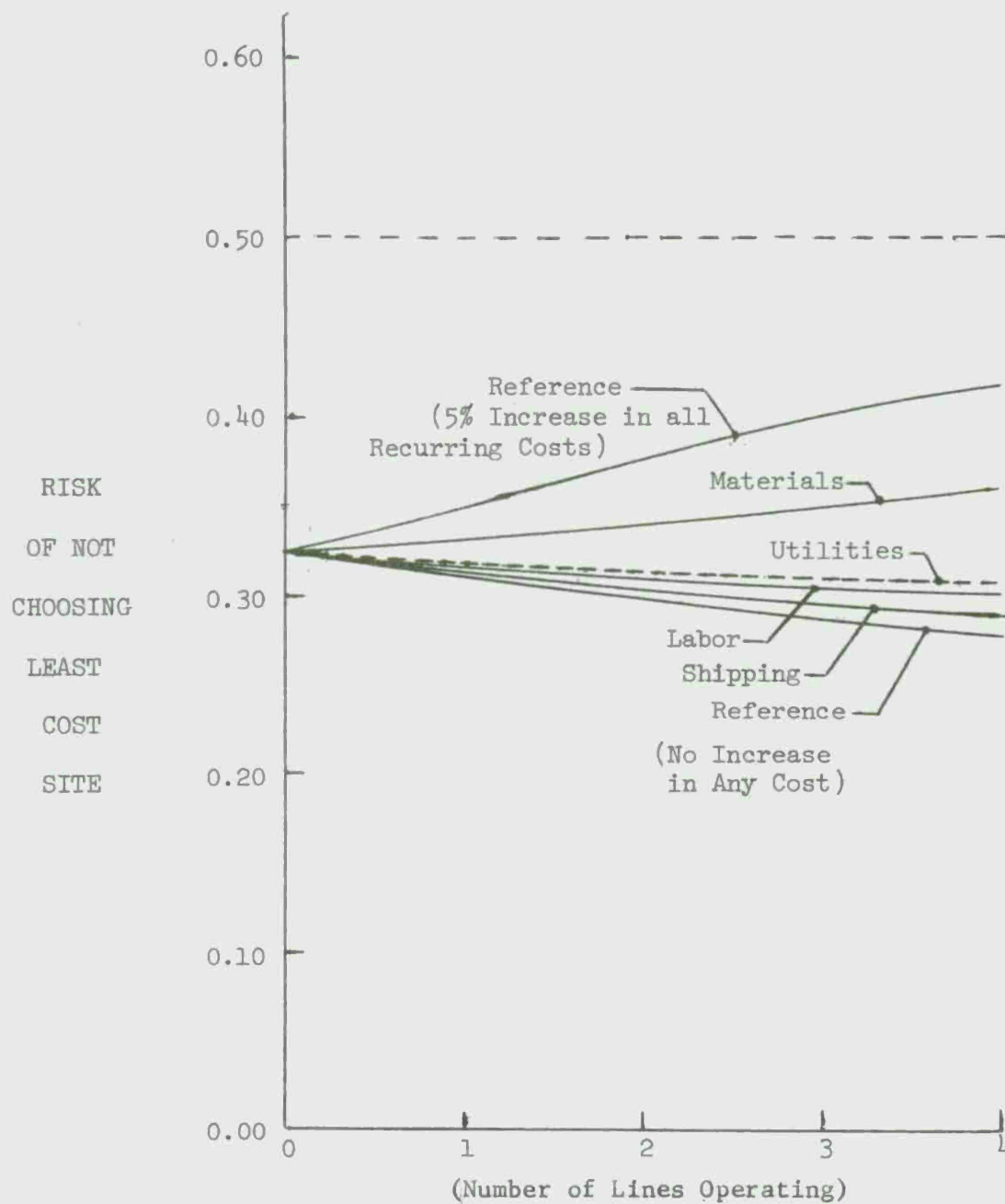


Figure 16. RDX/HMX Products\* Site Selection--Four Lines Expandable to Six--Sensitivity of Choice of Least Cost Site to a +5% Change in Individual Operational Costs Relative to Newport AAP

(\*exclusive of Composition-B)

## SUMMARY OF RESULTS

There is a requirement to expand RDX/HMX production capacity by one to three lines.

Of the specified candidate sites, Newport AAP ranks first on the basis of nominal least-cost for all levels of operation - product mix and facility capacities considered.

There is no measurable risk of making an error in choosing Newport AAP over Hawthorne NAD as the least-cost site.

There is a significant risk of erring in choosing Newport AAP as the least-cost site over McAlester NAD. This risk ranges between 27% for continuous four-lines operation and 33% if the facility is built and immediately shut down and is based on production of RDX/HMS production other than Comp-B.

A change of construction cost differential equal to 5% or more of Newport AAP construction cost and in favor of McAlester NAD will result in McAlester NAD being the nominal least cost site. With this increase in construction cost in favor of McAlester, the risk of erring in choosing the least-cost site increases.

Changes in operations cost in favor of McAlester could influence the nominal cost ranking. A 10% change, based on Newport costs, in all recurring cost could result in McAlester NAD being the nominal least-cost site for continuous operation exceeding two lines. However, this is associated with a high risk of erring in the choice of the least-cost site.

If Mississippi Test Facility is included (expansion of problem), it would be selected as the nominal least-cost site. However, the risk of not choosing the least-cost site when compared with Newport at expected levels of operation would exceed 10%. However, if MTF were chosen over McAlester, the risk of erring would not exceed 10%.

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## CONCLUSIONS

Within existing guidelines the production base for RDX/HMX products can be expanded by one to three lines.

Given the specified candidate sites - Newport AAP, McAlester NAD, and Hawthorne NAD:

- ° On the basis of cost, Newport AAP could be chosen with impunity over Hawthorne NAD.

- ° The sensitivity to construction cost and the risk of erring in the choice of the least-cost site indicates that factors other than economics and costs should be considered in the choice between Newport AAP and McAlester NAD.

If the problem is expanded by including locations other than those specified, e.g., Mississippi Test Facility, there is a reasonable chance that such locations would be contenders and would have an acceptable risk of error when compared to either McAlester NAD or Hawthorne NAD.

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12. Base Restructure Project - Army Ammunition Production Base Reconfiguration Study - 61/81mm Site Selection. US Army Armament Command, Rock Island, Illinois, August 1973.
13. DF from AMSAR-PA-Z, Subject: Utility Cost Rates for Base Restructure, 7 Nov 1973.
14. Chemical Marketing Reporter, Vol 205, No. 29, Schell Publishing Co., Inc., NY, NY., July 22, 1974.

15. DF from AMSAR-PPI-B to AMSAR-TMG, Subject: RDX - Comp-B Site Selection Transportation Cost Analysis, 29 Oct 1974. (Reply by endorsement with information, 11 Nov 1974.)

16. AR 55-60, Official Tables of Distances - Continental United States, Alaska, Hawaii, Canada, Canal Zone, Central America, Mexico, and Puerto Rico.

APPENDIX A

DATA

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## REQUIREMENTS - INPUT

The array of explosive compositions utilizing RDX and HMX in their composition was the basis upon which the requirement to justify the proposed lines were based. Table A-4 is a presentation abstracted from the current PBA's for retention (FY 75) and modernization and expansion (FY 76-80) (references 3 and 4). In the analysis, the requirements for Composition-B were treated separately and independently from the other RDX/HMX products.

## FACILITY PARAMETERS

For purposes of this study, parameters defining the facility were:

- ° Product Mix
- ° Number of Lines
- ° Line Capacity
- ° Material Requirements
- ° Utility Requirements
- ° Labor (Staffing) Requirements

The study considered the first two of these parameters in their various combinations as separate cases for analysis. These were as follows:

- ° Composition-B Four Lines
- ° Composition-B Two Lines
- ° Other RDX/HMX Products Four Lines
- ° Other RDX/HMX Products Two Lines

The latter four parameters were considered on a per line basis and not varied in the analysis.

The line capacity were expressed as the following rates:

7,500,000 lbs Composition-B per line/per month or

4,500,000 lbs equivalent wt RDX per line/per month

One lb HMX production was considered equivalent to nine lbs RDX production.

The unit line requirements for staffing, utilities, and materials are presented in Tables A-5, A-6, and A-7 respectively. Material requirements are further defined with respect to various products.

#### COST DATA

##### Construction.

Cost data is site dependent and is broken down as fixed (investment) costs and recurring (operational) costs.

Table A-8 is the cost summary provided for the Army Corps of Engineers (COE) Omaha District office by A. M. Kinney, Inc. The bottom line (total) is the construction costs used in the study for the specified candidate sites. Where Mississippi Test Facility (MTF) was included; the construction cost was adjusted, using Indices obtained from AR 415-17, 6 Aug 73<sup>10</sup>, and using Newport AAP as a basis.

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<sup>10</sup>AR 415-17, Empirical Cost Estimates for Military Construction and Cost Adjustment Factors.

## REQUIREMENTS - OUTPUT

The output requirements were defined<sup>8,9</sup> by AMSAR-PPW-MPC for Composition-B and for other RDX/HMX products.

The requirements for Composition-B are shown in Table A-1.

The requirements for other RDX/HMX products are shown in Table A-2; requirements for RDX/HMX when adjusted to a four line facility are shown in Table A-3.

TABLE A-1. DISTRIBUTION OF COMPOSITION-B  
(MILLIONS OF LBS/MO)

USER \ OPERATING LEVEL				
	(4 Lines)	(3 Lines)	(2 Lines)	(1 Line)
Iowa AAP	4.600	3.450	1.500	0.750
Joliet AAP	5.000	3.660	1.500	0.750
Kansas AAP	5.000	4.500	2.250	1.125
Lone Star AAP	1.800	1.380	0.900	0.450
Louisiana AAP	1.943	0.460	0.300	0.150
Crane NAD	8.600	6.750	6.750	3.375
Milan AAP	2.457	1.840	1.500	0.750
Picatinny Ars	0.600	0.460	0.300	0.150
TOTAL	30.000	22.500	15.000	7.500

<sup>8</sup>DF from AMSAR-PPI-B to AMSAR-PPW-MPC, Subject: Locations of Composition-B Users at Various Levels of Production, 15 Oct 1974.

<sup>9</sup>Unpublished Correspondence between AMSAR-PPI-B and AMSAR-PPW-MPC, Subject: Locations of Users of RDX/HMX Products other than Composition-B at Various Levels of Production, 3 Dec 1974.

TABLE A-2 DISTRIBUTION OF RDX/HMX  
(MILLIONS OF LBS/MO)

PRODUCT & USER		PERCENT OF NOMINAL PRODUCTION			
PRODUCT	USER	100%	75%	50%	25%
RDX	Iowa	0.30	0.20	0.10	0.10
	Milan	2.90	2.10	1.50	0.80
	Louisiana	2.00	1.50	1.00	0.50
	Crane	0.70	0.50	0.40	0.20
	Hawthorne	1.10	0.80	0.60	0.30
	SUBTOTAL	7.0	5.1	3.6	1.9
HMX	Lone Star	0.10	0.10	0.05	0.05
	Crane	0.10	0.10	0.05	0.05
	Bacchus	0.30	0.30	0.30	0.30
	SUBTOTAL	0.50	0.50	0.40	0.40
HMX (RDX Equivalents)	SUBTOTAL	4.5	4.5	3.6	3.6
RDX (Equivalent)	TOTAL	11.5	9.6	7.2	5.4
Line Equivalents		2.5	2.1	1.6	1.2

TABLE A-3. DISTRIBUTION OF RDX/HMX  
ADJUSTED TO A FOUR LINE FACILITY  
(MILLIONS OF LBS/MO)

USER & PRODUCT \ OPERATING LEVEL		100% 4 Lines	75% 3 Lines	50% 2 Lines	25% 1 Line
RDX	Iowa	0.47	0.28	0.13	0.08
	Milan	4.54	2.95	1.87	0.65
	Louisiana	3.13	2.11	1.25	0.41
	Crane	1.10	0.70	0.50	0.16
	Hawthorne	1.72	1.12	0.75	0.25
HMX	Lone Star	1.41 (0.16)*	1.27 (0.14)*	0.56 (0.06)*	0.37 (0.04)*
	Crane	1.41 (0.16)*	1.27 (0.14)*	0.56 (0.06)*	0.37 (0.04)*
	Bacchus	4.30 (0.48)*	3.80 (0.42)*	3.38 (0.38)*	2.21 (0.25)*
RDX (Equivalent)		18.00	13.50	9.00	4.50
RDX Only		10.96	7.16	4.50	2.96
HMX Only		(0.80)*	(0.70)*	(0.50)*	(0.33)*
Total Actual Weight		11.76	7.86	5.00	3.29

All units in terms of RDX or RDX equivalent weights except \* which are in terms of HMX weights.

TABLE A-4. RDX/HMX PRODUCTS MOBILIZATION REQUIREMENTS  
(MILLIONS LBS OF EXPLOSIVE PER MONTH)

PBA - STUDY	1975 (RETENTION)		(MODERNIZATION & EXPANSION)	
MOBILIZATION LEVEL	II	III	II	III
AMETEX			15.00	17.00
Composition A3	1.46	1.95	1.35	1.81
" A4	.24	.34	.16	.23
" A5	.54	.70	.30	.39
" B	38.77	53.70	24.29	31.92
" C4	.83	1.03	1.84	2.10
Cyclotol 70/30	2.95	4.40	.63	.93
<sup>a</sup> HMX	.01	.01	nil	nil
PBXN201	.01	.01	.92	1.38
PBXN4	.02	.02	-	-
PBXN5	nil	nil	.17	.19
PBXN6	-	-	1.19	1.78
<sup>a</sup> RDX	.62	.81	1.20	1.70

<sup>a</sup> explosive used in form of RDX or HMX all other explosives listed contain fractional parts of RDX/HMX.

TABLE A-5. STAFFING REQUIREMENTS --  
MEN PER SHIFT PER LINE

PERSONNEL TYPE	Direct (non-exempt)	Supervisory (exempt)
No of men	40	8

TABLE A-6. UTILITY REQUIREMENTS FOR  
FOUR LINE COMPOSITION-B  
FACILITY

Water (gal/Comp-B)	Electricity (KWH/lb Comp-B)	Steam (lb/lb Comp-B)
28.31	.4370	28.67



TABLE A-7. MATERIAL REQUIREMENTS  
FOR ONE LINE CAPACITY

Chemical	REQUIREMENTS (1000 LBS)		
	Composition-B <sup>a</sup>	RDX <sup>a</sup>	HMX <sup>b</sup>
Caustic Soda	1,320	1,320	330
Anhydrous Ammonia	2,225	2,225	556
Oxygen	1,315	1,315	329
Acetic Acid	513	513	129
Hexamine	1,720	1,720	430
TNT	2,900	-	-
Cyclohexanone	47	47	12
Triethyl Phosphate	22	22	5
Wax	75	75	19

<sup>a</sup> Abstracted from 1973 Composition-B Study (Reference 1)

<sup>b</sup> Estimate given by Dr. P. Lui - 5 December 1974

TABLE A-8. CONSTRUCTION COST

A. M. KINNEY, INC.  
CONSULTING ENGINEERS

SECTION IV - COST SUMMARY FOR PLANTS  
(MILLIONS OF DOLLARS)

<u>No.</u>	<u>Item</u>	<u>Newport AAP</u>	<u>Hawthorne NAD</u>	<u>McAlester NAD</u>
1.	Explosive Production Area	\$163.9	\$ 196.7	\$ 155.8
2.	Area "A" (Acetic Acid)	133.2	162.3	126.8
3.	"B" Line (Acetic Acid Cleanup)	30.4	37.7	28.9
4.	Nitric Acid Area	25.9	31.6	24.6
5.	Sodium Nitrate Area	5.23	6.38	4.97
6.	Aqueous Waste Treatment	9.28	11.13	8.82
7.	Cooling Tower Area	18.74	22.80	17.80
8.	General & Misc. (Bldgs. & Equip.)	11.72	14.27	11.14
9.	Raw Water Supply System	6.78	130.63*	28.65
10.	Potable Water System	0.26	0.60	0.48
11.	Raw Water System	3.69	10.13	9.33
12.	Filtered Water System	7.38	9.78	8.12
13.	Waste Treatment Lagoon System	1.76	3.28	1.26
14.	Sanitary Disposal System	0.02	0.44	0.41
15.	Process Material Piping Systems	0.74	0.65	2.13
16.	Steam Generation and Distribution	40.30	69.30	43.30
17.	Compressed Air System	0.54	0.69	0.56
18.	Electrical System	4.50	6.38	6.13
19.	Magazines	47.11	56.10	44.80
20.	Site Preparation	0.37	0.17	3.76
21.	Roads & Bridges	1.54	3.12	2.87
22.	Railroads & Bridges	4.06	6.05	4.16
23.	Replacement Facilities	0.60	0.43	0.23
24.	Real Estate Acquisition	0.05	-	0.05
	Subtotal	\$518.07	\$780.63	\$535.07
	15% Contingency	77.71	117.09	80.26
	Construction Cost	595.78	897.72	615.33
	5% S & A	29.79	44.89	30.77
	CWE	625.57	942.61	646.10
	5% Design Cost	31.28	47.13	32.31
	Total	\$656.85	\$989.74*	\$678.41

\* Plant water supply is not suitable without treatment. Estimated cost of necessary treatment facility is \$125.0M. Estimated cost of raw water supply system without treatment facility is \$5.63M. Thus, total estimated cost for Raw Water Supply System equals \$130.63M.

### Wages and Salaries.

The direct and supervisory wages and salary were obtained from the contractor operators via AMSAR-PPI for the specified candidate sites. The wages and salaries were reduced to an hourly rate on the basis of a 40-hour week. The fringe benefits were also provided by the contractor - operators. Where Mississippi Test Facility was included, the wage/salary rate was based on 90% of Louisiana AAP rates as of June 1973 and adjusted by the acceleration of non-agriculture labor rates for Mississippi from September 1973 to September 1974.<sup>11</sup> The use of the factored Louisiana rates was abstracted from data prepared for the "60mm-81mm Mortar Round Site Selection Study".<sup>12</sup> This data is presented in Table A-9.

TABLE A-9. HOURLY WAGE DATA

LOCATION	SUPERVISORY EXEMPT <sup>a</sup> (\$1hr)	DIRECT-LABOR NON-EXEMPT (\$1hr)	FRINGE BENEFITS (%)
Newport AAP	8.87	5.10	25
McAlester NAD	7.75	5.41	30
Hawthorne NAD	7.85	5.54	29
Mississippi <sup>a</sup>	5.85	2.83	25

<sup>a</sup> based on 90% of Louisiana AAP rates as of June 1973 and adjusted by acceleration of non-agriculture labor rates for Mississippi from Sept 73 to Sept 74.<sup>12</sup>

<sup>11</sup>Employment and Earning, Vol 21, No. 5, Bureau of Labor Statistics, Department of Labor, November 1974.

<sup>12</sup>Base Restructure Project - Army Ammunition Production Base Reconfiguration Study - 61/81mm Site Selection. US Army Armament Command, Rock Island, Illinois, August 1973.

### Utility Costs.

Utility costs were obtained for the selected candidate sites in the same manner as the labor costs. The set of utility costs obtained is not complete due to the inability, at this time, to completely define utility requirements for the process and to determine the availability at the various sites. Reference 13 was the source for the Mississippi Test Facility Data. The costs for steam were taken as the average cost of steam in the preceeding study<sup>1</sup> for all sites except Newport AAP due to inability to isolate these costs. The value for the cost of steam for Newport AAP was taken from the same source. Table A-10 is a presentation of utility rates used in the study.

TABLE A-10 UTILITY COSTS AT THE VARIOUS SITES<sup>a</sup>

UTILITY SITE	WATER (\$/1000 GAL)	ELECTRICITY (\$/KWH)	STEAM (\$/1000 lbs)
Newport AAP	0.12	0.01078	1.120
McAlester NAD	0.35	0.00900	1.036 <sup>b</sup>
Hawthorne NAD	0.24	0.02070	1.036 <sup>b</sup>
Mississippi	0.15	0.01108	1.036 <sup>b</sup>

<sup>a</sup>from 1973 Composition-B study cost

<sup>b</sup>estimates as average of 1973 Composition-B study cost

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<sup>13</sup>DF from AMSAR-PA-Z, Subject: Utility Cost Rates for Base Restructure, 7 Nov 1973.

<sup>1</sup>Loc. Cit.

### Material Costs.

Although cost of materials was not considered to be invariant among the various sites, the costs could not be differential on a site-to-site basis. The nominal nation-wide average cost was obtained from industry publications<sup>14</sup> and applied to all sites. The uncertainty in site-to-site cost was accounted for by the variance applied to the materials cost. The material cost used in this study are presented in Table A-11.

TABLE A-11. MATERIAL COSTS

CHEMICAL	Chemical Mktg Reporter July 22, 1973	\$/Lb Chemical	\$/Lb Composition-B	\$/Lb RDX
Acetic Acid	\$13/cwt	0.130	.0148	.0088
Anhydrous Ammonia	\$173/ton	0.086	0425	.0255
Caustic Soda	\$9/cwt	0.090	0264	.0158
Cyclohexanone	32/2¢/lb	0.325	.0033	.0020
Hexamine	27¢/lb	0.270	1031	.0618
Oxygen	\$.0199/cu ft <sup>a</sup>	0.223	0651	.0390
Triethylphosphate	38¢/lb	0.380	0019	.0011
Wax	10 1/4¢/lb	0.103	0018	.0010

<sup>a</sup> obtained from McAlester NAD procurement via Mr. Frank Black AMSAR-PPB November 27, 1974

<sup>14</sup> Chemical Marketing Reporter, Vol 205, No. 29, Schell Publishing Co., Inc. NY, NY., July 22, 1974.

### Transportation Cost.

The transportation costs are divided into inbound transportation cost of materials and outbound transportation costs of the product.

The minimum inbound rate was used in this study. This inbound rate for various materials was determined by selecting the minimum rate from the list provided by AMSAR-TMG.<sup>15</sup> The outbound rates were selected from the same list. It is interesting to note the in-transit storage privilege was not utilized for these transportation networks.

The rates that were applied to Mississippi Test Facility were obtained by estimating from the best linear fit of rates vs. mileage obtained from the data provided by AMSAR-TMG. The mileage estimates were obtained from the "Official Table of Distances".<sup>16</sup> Table A-12 is a summary of the transportation rates used in the analysis.

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<sup>15</sup>DF from AMSAR-PPI-B to AMSAR-TMG, Subject: RDX - Comp-B Site Selection Transportation Cost Analysis, 29 Oct 1974. (Reply by endorsement with information, 11 Nov 1974.)

<sup>16</sup>AR 55-60, Official Tables of Distances - Continental United States, Alaska, Hawaii, Canada, Canal Zone, Central America, Mexico, and Puerto Rico.



TABLE A-12 TRANSPORTATION RATES  
(\$/LB)

COMMODITY	FROM	TO	RATE-\$/LB
TNT	Joliet AAP	Newport AAP	.014379
	"	McAlester NAD	.021761
	"	Hawthorne NAD	.034756
	Newport AAP	Newport AAP	NA
	"	McAlester NAD	.025652
	"	Hawthorne NAD	.068824
	Radford AAP	Newport AAP	.023889
	"	McAlester NAD	.033782
	"	Hawthorne NAD	.112872
	Volunteer AAP	Newport AAP	.019298
	"	McAlester NAD	.019202
	"	Hawthorne NAD	.057713
COMPOSITION-B	McAlester NAD	Joliet AAP	.027871
	"	Iowa AAP	.023493
	"	Kansas AAP	.014373
	"	Lone Star AAP	.015826
	"	Louisiana AAP	.011020
	"	Crane NAD	.023359
	"	Milan AAP	.019852
	"	Picatinny Ars	.041646
	Newport AAP	Joliet AAP	.014373
	"	Iowa AAP	.017908
	"	Kansas AAP	.022361
	"	Lone Star AAP	.024657
	"	Louisiana AAP	.025682
	"	Crane NAD	.009675
	"	Milan AAP	.016285
	"	Picatinny Ars	.029701
	Hawthorne NAD	Joliet AAP	.043617
	"	Iowa AAP	.081021
	"	Kansas AAP	.036247
	"	Lone Star AAP	.053362
	"	Louisiana AAP	.053811
	"	Crane NAD	.048177
	"	Milan AAP	.092405
	"	Picatinny Ars	.121186



TABLE A-12 TRANSPORTATION RATES  
(\$/LB) (Cont'd)

COMMODITY	FROM	TO	RATE-\$/LB
ACETIC ACID	Geismar, LA	Newport AAP	.022200
	"	McAlester NAD	.013200
	"	Hawthorne NAD	.038900
	Kingsport, TN	Newport AAP	.017700
	"	McAlester NAD	.025000
	"	Hawthorne NAD	.028300
	Bishop, TX	Newport AAP	.028900
	"	McAlester NAD	.013900
	"	Hawthorne NAD	.038900
	Brownsville, TX	Newport AAP	.030800
	"	McAlester NAD	.016000
	"	Hawthorne NAD	.018300
	Tampa, TX	Newport AAP	.025000
	"	McAlester NAD	.011000
	"	Hawthorne NAD	.038900
	Texas City, TX	Newport AAP	.025300
	"	McAlester NAD	.011800
	"	Hawthorne NAD	.018300
CYCLOHEXANE	Freeport, TX	Newport AAP	.030100
	"	McAlester NAD	.019400
	"	Hawthorne NAD	.060200
	Luling, LA	Newport AAP	.026500
	"	McAlester NAD	.023200
	"	Hawthorne NAD	.062700
	Augusta, GA	Newport AAP	.026100
	"	McAlester NAD	.030500
	"	Hawthorne NAD	.069300
	Hopewell, VA	Newport AAP	.026800
	"	McAlester NAD	.035500
	"	Hawthorne NAD	.079800
	Belle, VA	Newport AAP	.018400
	"	McAlester NAD	.031500
	"	Hawthorne NAD	.075800
TRIETHYLPHOSPHATE	Kingsport, TN	Newport AAP	.029700
	"	McAlester NAD	.033400
	"	Hawthorne NAD	.072300

TABLE A-12 TRANSPORTATION RATES  
(\$/LB) (Cont'd)

COMMODITY	FROM	TO	RATE-\$/LB
HEXAMINE	Demopolis, AL	Newport AAP	.010700
	"	McAlester NAD	.012462
	"	Hawthorne NAD	.035500
	Fayetteville, NC	Newport AAP	.014000
	"	McAlester NAD	.022175
	"	Hawthorne NAD	.038600
	Fords, NJ	Newport AAP	.015400
	"	McAlester NAD	.028593
	"	Hawthorne NAD	.038600
	Sheboygan, WI	Newport AAP	.008100
	"	McAlester NAD	.019210
	"	Hawthorne NAD	.032200
	Boundbrook, NJ	Newport AAP	.015400
	"	McAlester NAD	.028593
	"	Hawthorne NAD	.038600
CRUDE WAX	Louisville, KY	Newport AAP	.007612
	"	McAlester NAD	.029636
	"	Hawthorne NAD	.054205
	Tulsa, OK	Newport AAP	.025170
	"	McAlester NAD	.004354
	"	Hawthorne NAD	.048330
	New York, NY	Newport AAP	.026693
	"	McAlester NAD	.044555
	"	Hawthorne NAD	.059977
BOXES (each)	Hawthorne NAD	Newport AAP	.176000
	"	McAlester NAD	.124000
	"	Hawthorne NAD	NA
	Crane NAD	Newport AAP	.016400
	"	McAlester NAD	.052400
	"	Hawthorne NAD	.188000
	Iowa AAP	Newport AAP	.030800
	"	McAlester NAD	.079839
	"	Hawthorne NAD	.155600
	Joliet AAP	Newport AAP	.025200
	"	McAlester NAD	.096684
	"	Hawthorne NAD	.175600

TABLE A-12 TRANSPORTATION RATES  
(\$/LB) (Cont'd)

COMMODITY	FROM	TO	RATE-\$/LB
BOXES (each) (cont'd)	Kansas AAP	Newport AAP	.048000
	"	McAlester NAD	.040041
	"	Hawthorne NAD	.125600
	Lone Star AAP	Newport AAP	.048800
	"	McAlester NAD	.034899
	"	Hawthorne NAD	.125600
	Louisiana AAP	Newport AAP	.051600
	"	McAlester NAD	.047163
	"	Hawthorne NAD	.145200
	Milan AAP	Newport AAP	.031200
	"	McAlester NAD	.040400
	"	Hawthorne NAD	.188000
	Picatinny Ars	Newport AAP	.059600
	"	McAlester NAD	.084800
	"	Hawthorne NAD	.233200
	McAlester NAD	Newport AAP	.052400
	"	McAlester NAD	NA
	"	Hawthorne NAD	.146800

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APPENDIX B  
COMPUTER MODEL RESULTS

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SUPPLEMENTARY COMP-8 SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 1	NEWPORT	994.73	31.53	*****
(100/100/100)	HAWTHORNE	1386.72	45.65	0.0
TEN YR PROD= 3600	MC ALESTER	1038.53	32.54	16.7
CASE NO. 2	NEWPORT	972.14	31.19	*****
(100/100/ 75)	HAWTHORNE	1358.55	45.31	0.0
TEN YR PROD= 3330	MC ALESTER	1014.65	32.19	17.1
CASE NO. 3	NEWPORT	949.56	30.57	*****
(100/100/ 50)	HAWTHORNE	1330.37	44.99	0.0
TEN YR PROD= 3060	MC ALESTER	990.77	31.86	17.6
CASE NO. 4	NEWPORT	926.97	30.56	*****
(100/100/ 25)	HAWTHORNE	1302.20	44.69	0.0
TEN YR PROD= 2790	MC ALESTER	966.89	31.55	18.2
CASE NO. 5	NEWPORT	904.39	30.26	*****
(100/100/ 0)	HAWTHORNE	1274.02	44.40	0.0
TEN YR PROD= 2520	MC ALESTER	943.00	31.25	18.7
CASE NO. 6	NEWPORT	964.67	31.08	*****
(100/ 75/100)	HAWTHORNE	1349.22	45.20	0.0
TEN YR PROD= 3330	MC ALESTER	1006.75	32.08	17.3
CASE NO. 7	NEWPORT	942.08	30.76	*****
(100/ 75/ 75)	HAWTHORNE	1321.04	44.89	0.0
TEN YR PROD= 3060	MC ALESTER	982.86	31.76	17.8
CASE NO. 8	NEWPORT	919.50	30.46	*****
(100/ 75/ 50)	HAWTHORNE	1292.87	44.59	0.0
TEN YR PROD= 2790	MC ALESTER	958.98	31.44	18.4
CASE NO. 9	NEWPORT	896.91	30.17	*****
(100/ 75/ 25)	HAWTHORNE	1264.69	44.30	0.0
TEN YR PROD= 2520	MC ALESTER	935.10	31.15	18.9
CASE NO. 10	NEWPORT	874.33	29.89	*****
(100/ 75/ 0)	HAWTHORNE	1236.52	44.04	0.0
TEN YR PROD= 2250	MC ALESTER	911.22	30.87	19.5



SUPPLEMENTARY COMP-8 SITE SELECTION  
FOUR LINE CAPACITY  
COST /SENSITIVITY /RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 11	NEWPORT	934.60	30.66	*****
(100/ 50/100)	HAWTHORNE	1311.72	44.79	0.0
TEN YR PROD= 3060	MC ALESTER	974.96	31.65	18.0
CASE NO. 12	NEWPORT	912.02	30.36	*****
(100/ 50/ 75)	HAWTHORNE	1283.54	44.49	0.0
TEN YR PROD= 2790	MC ALESTER	951.07	31.34	18.5
CASE NO. 13	NEWPORT	889.43	30.08	*****
(100/ 50/ 50)	HAWTHORNE	1255.37	44.21	0.0
TEN YR PROD= 2520	MC ALESTER	927.19	31.06	19.1
CASE NO. 14	NEWPORT	866.85	29.01	*****
(100/ 50/ 25)	HAWTHORNE	1227.19	43.95	0.0
TEN YR PROD= 2250	MC ALESTER	903.31	30.78	19.7
CASE NO. 15	NEWPORT	844.27	29.56	*****
(100/ 50/ 0)	HAWTHORNE	1199.02	43.71	0.0
TEN YR PROD= 1980	MC ALESTER	879.43	30.53	20.4
CASE NO. 16	NEWPORT	804.54	30.26	*****
(100/ 25/100)	HAWTHORNE	1274.22	44.40	0.0
TEN YR PROD= 2790	MC ALESTER	943.17	31.25	18.7
CASE NO. 17	NEWPORT	881.96	29.99	*****
(100/ 25/ 75)	HAWTHORNE	1246.04	44.13	0.0
TEN YR PROD= 2520	MC ALESTER	919.29	30.96	19.3
CASE NO. 18	NEWPORT	859.37	29.72	*****
(100/ 25/ 50)	HAWTHORNE	1217.87	43.87	0.0
TEN YR PROD= 2250	MC ALESTER	895.41	30.70	20.0
CASE NO. 19	NEWPORT	836.79	29.48	*****
(100/ 25/ 25)	HAWTHORNE	1189.69	43.63	0.0
TEN YR PROD= 1980	MC ALESTER	871.52	30.45	20.6
CASE NO. 20	NEWPORT	814.21	29.25	*****
(100/ 25/ 0)	HAWTHORNE	1161.51	43.41	0.0
TEN YR PROD= 1710	MC ALESTER	847.64	30.21	21.3

SUPPLEMENTARY COMP-B SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 21	NEWPORT	874.48	29.90	*****
(100/ 0/100)	HAWTHORNE	1236.71	44.04	0.0
TEN YR PROD= 2520	MC ALESTER	911.38	30.87	19.5
CASE NO. 22	NEWPORT	851.90	29.64	*****
(100/ 0/ 75)	HAWTHORNE	1208.54	43.79	0.0
TEN YR PROD= 2250	MC ALESTER	887.50	30.61	20.2
CASE NO. 23	NEWPORT	829.31	29.40	*****
(100/ 0/ 50)	HAWTHORNE	1180.36	43.56	0.0
TEN YR PROD= 1980	MC ALESTER	863.62	30.37	20.9
CASE NO. 24	NEWPORT	806.73	29.18	*****
(100/ 0/ 25)	HAWTHORNE	1152.19	43.34	0.0
TEN YR PROD= 1710	MC ALESTER	839.73	30.14	21.6
CASE NO. 25	NEWPORT	784.15	28.97	*****
(100/ 0/ 0)	HAWTHORNE	1124.01	43.15	0.0
TEN YR PROD= 1440	MC ALESTER	815.85	29.93	22.3
CASE NO. 26	NEWPORT	938.62	30.72	*****
( 75/100/100)	HAWTHORNE	1316.73	44.84	0.0
TEN YR PROD= 3240	MC ALESTER	979.21	31.71	17.9
CASE NO. 27	NEWPORT	916.04	30.41	*****
( 75/100/ 75)	HAWTHORNE	1288.56	44.54	0.0
TEN YR PROD= 2970	MC ALESTER	955.32	31.40	18.4
CASE NO. 28	NEWPORT	893.45	30.13	*****
( 75/100/ 50)	HAWTHORNE	1260.38	44.26	0.0
TEN YR PROD= 2700	MC ALESTER	931.44	31.11	19.0
CASE NO. 29	NEWPORT	870.87	29.85	*****
( 75/100/ 25)	HAWTHORNE	1232.21	44.00	0.0
TEN YR PROD= 2430	MC ALESTER	907.56	30.83	19.6
CASE NO. 30	NEWPORT	848.28	29.60	*****
( 75/100/ 0)	HAWTHORNE	1204.03	43.75	0.0
TEN YR PROD= 2160	MC ALESTER	883.68	30.57	20.3

SUPPLEMENTARY COMP-B SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 31	NEWPORT	908.56	30.32	*****
( 75/ 75/100)	HAWTHORNE	1279.23	44.45	0.0
TEN YR PROD= 2970	MC ALESTER	947.42	31.30	18.6
CASE NO. 32	NEWPORT	885.98	30.03	*****
( 75/ 75/ 75)	HAWTHORNE	1251.05	44.17	0.0
TEN YR PROD= 2700	MC ALESTER	923.54	31.01	19.2
CASE NO. 33	NEWPORT	863.39	29.77	*****
( 75/ 75/ 50)	HAWTHORNE	1222.88	43.92	0.0
TEN YR PROD= 2430	MC ALESTER	899.65	30.74	19.8
CASE NO. 34	NEWPORT	840.81	29.52	*****
( 75/ 75/ 25)	HAWTHORNE	1194.70	43.67	0.0
TEN YR PROD= 2160	MC ALESTER	875.77	30.49	20.5
CASE NO. 35	NEWPORT	818.22	29.29	*****
( 75/ 75/ 0)	HAWTHORNE	1166.53	43.45	0.0
TEN YR PROD= 1890	MC ALESTER	851.89	30.25	21.2
CASE NO. 36	NEWPORT	878.50	29.94	*****
( 75/ 50/100)	HAWTHORNE	1241.73	44.09	0.0
TEN YR PROD= 2700	MC ALESTER	915.63	30.92	19.4
CASE NO. 37	NEWPORT	855.92	29.68	*****
( 75/ 50/ 75)	HAWTHORNE	1213.55	43.83	0.0
TEN YR PROD= 2430	MC ALESTER	891.75	30.66	20.1
CASE NO. 38	NEWPORT	833.33	29.44	*****
( 75/ 50/ 50)	HAWTHORNE	1185.38	43.60	0.0
TEN YR PROD= 2160	MC ALESTER	867.87	30.41	20.7
CASE NO. 39	NEWPORT	810.75	29.22	*****
( 75/ 50/ 25)	HAWTHORNE	1157.20	43.38	0.0
TEN YR PROD= 1890	MC ALESTER	843.98	30.18	21.4
CASE NO. 40	NEWPORT	788.16	29.01	*****
( 75/ 50/ 0)	HAWTHORNE	1129.03	43.18	0.0
TEN YR PROD= 1620	MC ALESTER	820.10	29.97	22.2



SUPPLEMENTARY COMP-B SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 41 ( 75/ 25/100)	NEWPORT HAWTHORNE	848.44 1204.23	29.60 43.75	***** 0.0
TEN YR PROD= 2430	MC ALESTER	883.84	30.57	20.3
CASE NO. 42 ( 75/ 25/ 75)	NEWPORT HAWTHORNE	825.86 1176.05	29.36 43.52	***** 0.0
TEN YR PROD= 2160	MC ALESTER	859.96	30.33	21.0
CASE NO. 43 ( 75/ 25/ 50)	NEWPORT HAWTHORNE	803.27 1147.87	29.15 43.31	***** 0.0
TEN YR PROD= 1890	MC ALESTER	836.08	30.11	21.7
CASE NO. 44 ( 75/ 25/ 25)	NEWPORT HAWTHORNE	780.69 1119.70	28.94 43.12	***** 0.0
TEN YR PROD= 1620	MC ALESTER	812.20	29.90	22.4
CASE NO. 45 ( 75/ 25/ 0)	NEWPORT HAWTHORNE	758.10 1091.52	28.76 42.94	***** 0.0
TEN YR PROD= 1350	MC ALESTER	788.31	29.72	23.3
CASE NO. 46 ( 75/ 0/100)	NEWPORT HAWTHORNE	818.38 1166.72	29.29 43.45	***** 0.0
TEN YR PROD= 2160	MC ALESTER	852.06	30.25	21.2
CASE NO. 47 ( 75/ 0/ 75)	NEWPORT HAWTHORNE	795.80 1138.55	29.08 43.25	***** 0.0
TEN YR PROD= 1890	MC ALESTER	828.17	30.04	21.9
CASE NO. 48 ( 75/ 0/ 50)	NEWPORT HAWTHORNE	773.21 1110.37	28.88 43.06	***** 0.0
TEN YR PROD= 1620	MC ALESTER	804.29	29.84	22.7
CASE NO. 49 ( 75/ 0/ 25)	NEWPORT HAWTHORNE	750.63 1082.20	28.70 42.89	***** 0.0
TEN YR PROD= 1350	MC ALESTER	780.41	29.66	23.5
CASE NO. 50 ( 75/ 0/ 0)	NEWPORT HAWTHORNE	728.04 1054.02	28.55 42.74	***** 0.0
TEN YR PROD= 1080	MC ALESTER	756.53	29.50	24.4

SUPPLEMENTARY COMP-8 SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 51 ( 50/100/100)	NEWPORT HAWTHORNE	882.52 1246.74	29.99 44.13	***** 0.0
TEN YR PROD= 2880	MC ALESTER	919.88	30.97	19.3
CASE NO. 52 ( 50/100/ 75)	NEWPORT HAWTHORNE	859.94 1218.57	29.73 43.88	***** 0.0
TEN YR PROD= 2610	MC ALESTER	896.00	30.70	19.9
CASE NO. 53 ( 50/100/ 50)	NEWPORT HAWTHORNE	837.35 1190.39	29.48 43.64	***** 0.0
TEN YR PROD= 2340	MC ALESTER	872.12	30.45	20.6
CASE NO. 54 ( 50/100/ 25)	NEWPORT HAWTHORNE	814.77 1162.21	29.25 43.42	***** 0.0
TEN YR PROD= 2070	MC ALESTER	848.23	30.22	21.3
CASE NO. 55 ( 50/100/ 0)	NEWPORT HAWTHORNE	792.18 1134.04	29.04 43.21	***** 0.0
TEN YR PROD= 1800	MC ALESTER	824.35	30.00	22.1
CASE NO. 56 ( 50/ 75/100)	NEWPORT HAWTHORNE	852.46 1209.24	29.65 43.80	***** 0.0
TEN YR PROD= 2610	MC ALESTER	888.09	30.62	20.2
CASE NO. 57 ( 50/ 75/ 75)	NEWPORT HAWTHORNE	829.88 1181.06	29.41 43.56	***** 0.0
TEN YR PROD= 2340	MC ALESTER	864.21	30.37	20.8
CASE NO. 58 ( 50/ 75/ 50)	NEWPORT HAWTHORNE	807.29 1152.89	29.18 43.35	***** 0.0
TEN YR PROD= 2070	MC ALESTER	840.33	30.15	21.6
CASE NO. 59 ( 50/ 75/ 25)	NEWPORT HAWTHORNE	784.71 1124.71	28.98 43.15	***** 0.0
TEN YR PROD= 1800	MC ALESTER	816.45	29.94	22.3
CASE NO. 60 ( 50/ 75/ 0)	NEWPORT HAWTHORNE	762.12 1096.54	28.79 42.97	***** 0.0
TEN YR PROD= 1530	MC ALESTER	792.56	29.75	23.1

SUPPLEMENTARY COMP-B SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 61	NEWPORT	822.40	29.33	*****
( 50/ 50/100)	HAWTHORNE	1171.74	43.49	0.0
TEN YR PROD= 2340	MC ALESTER	856.31	30.30	21.1
CASE NO. 62	NEWPORT	799.81	29.11	*****
( 50/ 50/ 75)	HAWTHORNE	1143.56	43.28	0.0
TEN YR PROD= 2070	MC ALESTER	832.42	30.07	21.8
CASE NO. 63	NEWPORT	777.23	28.91	*****
( 50/ 50/ 50)	HAWTHORNE	1115.39	43.09	0.0
TEN YR PROD= 1800	MC ALESTER	808.54	29.87	22.6
CASE NO. 64	NEWPORT	754.65	28.73	*****
( 50/ 50/ 25)	HAWTHORNE	1087.21	42.92	0.0
TEN YR PROD= 1530	MC ALESTER	784.66	29.69	23.4
CASE NO. 65	NEWPORT	732.06	28.57	*****
( 50/ 50/ 0)	HAWTHORNE	1059.04	42.76	0.0
TEN YR PROD= 1260	MC ALESTER	760.78	29.52	24.2
CASE NO. 66	NEWPORT	792.34	29.05	*****
( 50/ 25/100)	HAWTHORNE	1134.24	43.22	0.0
TEN YR PROD= 2070	MC ALESTER	824.52	30.01	22.0
CASE NO. 67	NEWPORT	769.75	28.85	*****
( 50/ 25/ 75)	HAWTHORNE	1106.06	43.03	0.0
TEN YR PROD= 1800	MC ALESTER	800.64	29.81	22.8
CASE NO. 68	NEWPORT	747.17	28.68	*****
( 50/ 25/ 50)	HAWTHORNE	1077.88	42.86	0.0
TEN YR PROD= 1530	MC ALESTER	776.75	29.63	23.7
CASE NO. 69	NEWPORT	724.58	28.52	*****
( 50/ 25/ 25)	HAWTHORNE	1049.71	42.71	0.0
TEN YR PROD= 1260	MC ALESTER	752.87	29.47	24.5
CASE NO. 70	NEWPORT	702.00	28.39	*****
( 50/ 25/ 0)	HAWTHORNE	1021.53	42.58	0.0
TEN YR PROD= 990	MC ALESTER	728.99	29.34	25.4



SUPPLEMENTARY COMP-B SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTLs= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 71	NEWPORT	762.28	28.79	*****
( 50/ 0/100)	HAWTHORNE	1096.73	42.97	0.0
TEN YR PROD= 1800	MC ALESTER	792.73	29.75	23.1
CASE NO. 72	NEWPORT	739.69	28.63	*****
( 50/ 0/ 75)	HAWTHORNE	1068.56	42.81	0.0
TEN YR PROD= 1530	MC ALESTER	768.85	29.58	23.9
CASE NO. 73	NEWPORT	717.11	28.48	*****
( 50/ 0/ 50)	HAWTHORNE	1040.38	42.67	0.0
TEN YR PROD= 1260	MC ALESTER	744.96	29.43	24.8
CASE NO. 74	NEWPORT	694.52	28.35	*****
( 50/ 0/ 25)	HAWTHORNE	1012.21	42.55	0.0
TEN YR PROD= 990	MC ALESTER	721.08	29.29	25.7
CASE NO. 75	NEWPORT	671.94	28.24	*****
( 50/ 0/ 0)	HAWTHORNE	984.03	42.44	0.0
TEN YR PROD= 720	MC ALESTER	697.20	29.18	26.7
CASE NO. 76	NEWPORT	826.42	29.37	*****
( 25/100/100)	HAWTHORNE	1176.75	43.53	0.0
TEN YR PROD= 2520	MC ALESTER	860.55	30.34	20.9
CASE NO. 77	NEWPORT	803.83	29.15	*****
( 25/100/ 75)	HAWTHORNE	1148.58	43.32	0.0
TEN YR PROD= 2250	MC ALESTER	836.67	30.11	21.7
CASE NO. 78	NEWPORT	781.25	28.95	*****
( 25/100/ 50)	HAWTHORNE	1120.40	43.12	0.0
TEN YR PROD= 1980	MC ALESTER	812.79	29.91	22.4
CASE NO. 79	NEWPORT	758.66	28.76	*****
( 25/100/ 25)	HAWTHORNE	1092.22	42.95	0.0
TEN YR PROD= 1710	MC ALESTER	788.91	29.72	23.2
CASE NO. 80	NEWPORT	736.08	28.60	*****
( 25/100/ 0)	HAWTHORNE	1064.05	42.79	0.0
TEN YR PROD= 1440	MC ALESTER	765.03	29.55	24.1



SUPPLEMENTARY COMP-8 SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 81	NEWPORT	796.36	29.08	*****
( 25/ 75/100)	HAWTHORNE	1139.25	43.25	0.0
TEN YR PROD= 2250	MC ALESTER	828.77	30.04	21.9
CASE NO. 82	NEWPORT	773.77	28.89	*****
( 25/ 75/ 75)	HAWTHORNE	1111.07	43.06	0.0
TEN YR PROD= 1980	MC ALESTER	804.88	29.84	22.7
CASE NO. 83	NEWPORT	751.19	28.71	*****
( 25/ 75/ 50)	HAWTHORNE	1082.90	42.89	0.0
TEN YR PROD= 1710	MC ALESTER	781.00	29.66	23.5
CASE NO. 84	NEWPORT	728.60	28.55	*****
( 25/ 75/ 25)	HAWTHORNE	1054.72	42.74	0.0
TEN YR PROD= 1440	MC ALESTER	757.12	29.50	24.4
CASE NO. 85	NEWPORT	706.02	28.41	*****
( 25/ 75/ 0)	HAWTHORNE	1026.55	42.61	0.0
TEN YR PROD= 1170	MC ALESTER	733.24	29.36	25.3
CASE NO. 86	NEWPORT	766.30	28.82	*****
( 25/ 50/100)	HAWTHORNE	1101.75	43.00	0.0
TEN YR PROD= 1980	MC ALESTER	796.98	29.78	23.0
CASE NO. 87	NEWPORT	743.71	28.65	*****
( 25/ 50/ 75)	HAWTHORNE	1073.57	42.84	0.0
TEN YR PROD= 1710	MC ALESTER	773.10	29.61	23.8
CASE NO. 88	NEWPORT	721.13	28.50	*****
( 25/ 50/ 50)	HAWTHORNE	1045.40	42.69	0.0
TEN YR PROD= 1440	MC ALESTER	749.21	29.45	24.7
CASE NO. 89	NEWPORT	698.54	28.37	*****
( 25/ 50/ 25)	HAWTHORNE	1017.22	42.57	0.0
TEN YR PROD= 1170	MC ALESTER	725.33	29.32	25.6
CASE NO. 90	NEWPORT	675.96	28.25	*****
( 25/ 50/ 0)	HAWTHORNE	989.04	42.46	0.0
TEN YR PROD= 900	MC ALESTER	701.45	29.20	26.5

SUPPLEMENTARY COMP-B SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 91	NEWPORT	736.24	28.60	*****
( 25/ 25/100)	HAWTHORNE	1064.24	42.79	0.0
TEN YR PROD= 1710	MC ALESTER	765.19	29.55	24.1
CASE NO. 92	NEWPORT	713.65	28.46	*****
( 25/ 25/ 75)	HAWTHORNE	1036.07	42.65	0.0
TEN YR PROD= 1440	MC ALESTER	741.31	29.40	25.0
CASE NO. 93	NEWPORT	691.07	28.33	*****
( 25/ 25/ 50)	HAWTHORNE	1007.89	42.53	0.0
TEN YR PROD= 1170	MC ALESTER	717.43	29.28	25.9
CASE NO. 94	NEWPORT	668.48	28.22	*****
( 25/ 25/ 25)	HAWTHORNE	979.72	42.43	0.0
TEN YR PROD= 900	MC ALESTER	693.54	29.17	26.8
CASE NO. 95	NEWPORT	645.90	28.13	*****
( 25/ 25/ 0)	HAWTHORNE	951.54	42.34	0.0
TEN YR PROD= 630	MC ALESTER	669.66	29.08	27.8
CASE NO. 96	NEWPORT	706.18	28.41	*****
( 25/ 0/100)	HAWTHORNE	1026.74	42.61	0.0
TEN YR PROD= 1440	MC ALESTER	733.40	29.36	25.3
CASE NO. 97	NEWPORT	683.59	28.29	*****
( 25/ 0/ 75)	HAWTHORNE	998.57	42.49	0.0
TEN YR PROD= 1170	MC ALESTER	709.52	29.24	26.2
CASE NO. 98	NEWPORT	661.01	28.19	*****
( 25/ 0/ 50)	HAWTHORNE	970.39	42.40	0.0
TEN YR PROD= 900	MC ALESTER	685.64	29.13	27.2
CASE NO. 99	NEWPORT	638.42	28.11	*****
( 25/ 0/ 25)	HAWTHORNE	942.22	42.32	0.0
TEN YR PROD= 630	MC ALESTER	661.76	29.05	28.2
CASE NO. 100	NEWPORT	615.84	28.05	*****
( 25/ 0/ 0)	HAWTHORNE	914.04	42.26	0.0
TEN YR PROD= 360	MC ALESTER	637.87	28.99	29.2

SUPPLEMENTARY COMP-B SITE SELECTION  
FOUR LINE CAPACITY

COST /SENSITIVITY /RISK

INCREASE IN NEWPORT AAP COSTS

CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%

(COST IN \$MILLION DISCOUNTED AT 10%)

(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 101	NEWPORT	770.32	28.86	*****
( 0/100/100)	HAWTHORNE	1106.76	43.03	0.0
TEN YR PROD= 2160	MC ALESTER	801.23	29.81	22.8
CASE NO. 102	NEWPORT	741.73	28.08	*****
( 0/100/ 75)	HAWTHORNE	1078.58	42.87	0.0
TEN YR PROD= 1890	MC ALESTER	777.35	29.64	23.6
CASE NO. 103	NEWPORT	725.15	28.53	*****
( 0/100/ 50)	HAWTHORNE	1050.41	42.72	0.0
TEN YR PROD= 1620	MC ALESTER	753.46	29.48	24.5
CASE NO. 104	NEWPORT	702.56	28.39	*****
( 0/100/ 25)	HAWTHORNE	1022.23	42.59	0.0
TEN YR PROD= 1350	MC ALESTER	729.58	29.34	25.4
CASE NO. 105	NEWPORT	679.98	28.27	*****
( 0/100/ 0)	HAWTHORNE	994.06	42.48	0.0
TEN YR PROD= 1080	MC ALESTER	705.70	29.22	26.3
CASE NO. 106	NEWPORT	740.26	28.63	*****
( 0/ 75/100)	HAWTHORNE	1069.26	42.82	0.0
TEN YR PROD= 1890	MC ALESTER	769.44	29.58	23.9
CASE NO. 107	NEWPORT	717.67	28.48	*****
( 0/ 75/ 75)	HAWTHORNE	1041.08	42.67	0.0
TEN YR PROD= 1620	MC ALESTER	745.56	29.43	24.8
CASE NO. 108	NEWPORT	695.09	28.35	*****
( 0/ 75/ 50)	HAWTHORNE	1012.91	42.55	0.0
TEN YR PROD= 1350	MC ALESTER	721.68	29.30	25.7
CASE NO. 109	NEWPORT	672.50	28.24	*****
( 0/ 75/ 25)	HAWTHORNE	984.73	42.44	0.0
TEN YR PROD= 1080	MC ALESTER	697.79	29.18	26.7
CASE NO. 110	NEWPORT	649.92	28.15	*****
( 0/ 75/ 0)	HAWTHORNE	956.56	42.36	0.0
TEN YR PROD= 810	MC ALESTER	673.91	29.09	27.7



SUPPLEMENTARY COMP-B SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTLs= 0% UTLs= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 111	NEWPORT	710.19	28.43	****
( 0/ 50/100)	HAWTHORNE	1031.76	42.63	0.0
TEN YR PROD= 1620	MC ALESTER	737.65	29.38	25.1
CASE NO. 112	NEWPORT	687.61	28.31	****
( 0/ 50/ 75)	HAWTHORNE	1003.58	42.51	0.0
TEN YR PROD= 1350	MC ALESTER	713.77	29.26	26.0
CASE NO. 113	NEWPORT	665.03	28.21	****
( 0/ 50/ 50)	HAWTHORNE	975.40	42.41	0.0
TEN YR PROD= 1080	MC ALESTER	689.89	29.15	27.0
CASE NO. 114	NEWPORT	642.44	28.12	****
( 0/ 50/ 25)	HAWTHORNE	947.23	42.33	0.0
TEN YR PROD= 810	MC ALESTER	666.01	29.07	28.0
CASE NO. 115	NEWPORT	619.86	28.00	****
( 0/ 50/ 0)	HAWTHORNE	919.05	42.27	0.0
TEN YR PROD= 540	MC ALESTER	642.12	29.00	29.1
CASE NO. 116	NEWPORT	680.13	28.27	****
( 0/ 25/100)	HAWTHORNE	994.25	42.48	0.0
TEN YR PROD= 1350	MC ALESTER	705.87	29.22	26.3
CASE NO. 117	NEWPORT	657.55	28.18	****
( 0/ 25/ 75)	HAWTHORNE	966.08	42.38	0.0
TEN YR PROD= 1080	MC ALESTER	681.98	29.12	27.3
CASE NO. 118	NEWPORT	634.96	28.10	****
( 0/ 25/ 50)	HAWTHORNE	937.90	42.31	0.0
TEN YR PROD= 810	MC ALESTER	658.10	29.04	28.3
CASE NO. 119	NEWPORT	612.38	28.04	****
( 0/ 25/ 25)	HAWTHORNE	909.73	42.25	0.0
TEN YR PROD= 540	MC ALESTER	634.22	28.98	29.4
CASE NO. 120	NEWPORT	589.80	28.00	****
( 0/ 25/ 0)	HAWTHORNE	881.55	42.22	0.0
TEN YR PROD= 270	MC ALESTER	610.34	28.95	30.5

SUPPLEMENTARY COMP-B SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 121	NEWPORT	650.07	28.15	*****
( 0/ 0/100)	HAWTHORNE	956.75	42.36	0.0
TEN YR PROD= 1080	MC ALESTER	674.08	29.09	27.7
CASE NO. 122	NEWPORT	627.49	28.08	*****
( 0/ 0/ 75)	HAWTHORNE	928.58	42.29	0.0
TEN YR PROD= 810	MC ALESTER	650.20	29.02	28.7
CASE NO. 123	NEWPORT	604.90	28.03	*****
( 0/ 0/ 50)	HAWTHORNE	900.40	42.24	0.0
TEN YR PROD= 540	MC ALESTER	626.31	28.97	29.8
CASE NO. 124	NEWPORT	582.32	28.00	*****
( 0/ 0/ 25)	HAWTHORNE	872.23	42.21	0.0
TEN YR PROD= 270	MC ALESTER	602.43	28.94	30.9
CASE NO. 125	NEWPORT	559.74	27.99	*****
( 0/ 0/ 0)	HAWTHORNE	844.05	42.20	0.0
TEN YR PROD= 0	MC ALESTER	578.55	28.93	32.0

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SUPPLEMENTARY COMP-B SITE SELECTION  
TWO LINE CAPACITY  
COST /SENSITIVITY /RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTLs= 0% UTILS= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 1	NEWPORT	587.48	19.88	*****
(100/100/100)	HAWTHORNE	828.17	29.17	0.0
TEN YR PROD= 1800	MC ALESTER	611.69	20.49	19.8
CASE NO. 2	NEWPORT	576.19	19.74	*****
(100/100/ 75)	HAWTHORNE	814.09	29.04	0.0
TEN YR PROD= 1665	MC ALESTER	599.75	20.35	20.3
CASE NO. 3	NEWPORT	564.90	19.61	*****
(100/100/ 50)	HAWTHORNE	800.00	28.91	0.0
TEN YR PROD= 1530	MC ALESTER	587.81	20.22	20.8
CASE NO. 4	NEWPORT	553.61	19.49	*****
(100/100/ 25)	HAWTHORNE	785.91	28.80	0.0
TEN YR PROD= 1395	MC ALESTER	575.86	20.10	21.3
CASE NO. 5	NEWPORT	542.31	19.37	*****
(100/100/ 0)	HAWTHORNE	771.83	28.68	0.0
TEN YR PROD= 1260	MC ALESTER	563.92	19.98	21.9
CASE NO. 6	NEWPORT	572.45	19.70	*****
(100/ 75/100)	HAWTHORNE	809.42	29.00	0.0
TEN YR PROD= 1665	MC ALESTER	595.79	20.31	20.5
CASE NO. 7	NEWPORT	561.16	19.57	*****
(100/ 75/ 75)	HAWTHORNE	795.34	28.87	0.0
TEN YR PROD= 1530	MC ALESTER	583.85	20.18	21.0
CASE NO. 8	NEWPORT	549.87	19.45	*****
(100/ 75/ 50)	HAWTHORNE	781.25	28.76	0.0
TEN YR PROD= 1395	MC ALESTER	571.91	20.06	21.5
CASE NO. 9	NEWPORT	538.58	19.34	*****
(100/ 75/ 25)	HAWTHORNE	767.16	28.65	0.0
TEN YR PROD= 1260	MC ALESTER	559.97	19.94	22.1
CASE NO. 10	NEWPORT	527.28	19.23	*****
(100/ 75/ 0)	HAWTHORNE	753.08	28.54	0.0
TEN YR PROD= 1125	MC ALESTER	548.03	19.83	22.6



SUPPLEMENTARY COMP-B SITE SELECTION  
TWO LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 11	NEWPORT	557.42	19.53	*****
(100/ 50/100)	HAWTHORNE	790.67	28.83	0.0
TEN YR PROD= 1530	MC ALESTER	579.90	20.14	21.1
CASE NO. 12	NEWPORT	546.13	19.41	*****
(100/ 50/ 75)	HAWTHORNE	776.59	28.72	0.0
TEN YR PROD= 1395	MC ALESTER	567.96	20.02	21.7
CASE NO. 13	NEWPORT	534.84	19.30	*****
(100/ 50/ 50)	HAWTHORNE	762.50	28.61	0.0
TEN YR PROD= 1260	MC ALESTER	556.02	19.90	22.2
CASE NO. 14	NEWPORT	523.54	19.20	*****
(100/ 50/ 25)	HAWTHORNE	748.41	28.51	0.0
TEN YR PROD= 1125	MC ALESTER	544.08	19.80	22.8
CASE NO. 15	NEWPORT	512.25	19.10	*****
(100/ 50/ 0)	HAWTHORNE	734.33	28.42	0.0
TEN YR PROD= 990	MC ALESTER	532.14	19.70	23.4
CASE NO. 16	NEWPORT	542.39	19.38	*****
(100/ 25/100)	HAWTHORNE	771.93	28.68	0.0
TEN YR PROD= 1395	MC ALESTER	564.01	19.98	21.9
CASE NO. 17	NEWPORT	531.10	19.27	*****
(100/ 25/ 75)	HAWTHORNE	757.84	28.58	0.0
TEN YR PROD= 1260	MC ALESTER	552.07	19.87	22.4
CASE NO. 18	NEWPORT	519.81	19.16	*****
(100/ 25/ 50)	HAWTHORNE	743.75	28.48	0.0
TEN YR PROD= 1125	MC ALESTER	540.12	19.76	23.0
CASE NO. 19	NEWPORT	508.51	19.07	*****
(100/ 25/ 25)	HAWTHORNE	729.67	28.39	0.0
TEN YR PROD= 990	MC ALESTER	528.18	19.67	23.6
CASE NO. 20	NEWPORT	497.22	18.98	*****
(100/ 25/ 0)	HAWTHORNE	715.58	28.30	0.0
TEN YR PROD= 855	MC ALESTER	516.24	19.58	24.3

SUPPLEMENTARY COMP-B SITE SELECTION  
TWO LINE CAPACITY  
COSI / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 21	NEWPORT	527.36	19.23	*****
(100/ 0/100)	HAWTHORNE	753.18	28.55	0.0
TEN YR PROD= 1260	MC ALESTER	548.11	19.83	22.6
CASE NO. 22	NEWPORT	516.07	19.13	*****
(100/ 0/ 75)	HAWTHORNE	739.09	28.45	0.0
TEN YR PROD= 1125	MC ALESTER	536.17	19.73	23.2
CASE NO. 23	NEWPORT	504.78	19.04	*****
(100/ 0/ 50)	HAWTHORNE	725.00	28.36	0.0
TEN YR PROD= 990	MC ALESTER	524.23	19.64	23.8
CASE NO. 24	NEWPORT	493.48	18.95	*****
(100/ 0/ 25)	HAWTHORNE	710.92	28.28	0.0
TEN YR PROD= 855	MC ALESTER	512.29	19.55	24.5
CASE NO. 25	NEWPORT	482.19	18.88	*****
(100/ 0/ 0)	HAWTHORNE	696.83	28.20	0.0
TEN YR PROD= 720	MC ALESTER	500.35	19.47	25.2
CASE NO. 26	NEWPORT	559.43	19.55	*****
( 75/100/100)	HAWTHORNE	793.18	28.86	0.0
TEN YR PROD= 1620	MC ALESTER	582.03	20.16	21.1
CASE NO. 27	NEWPORT	548.14	19.43	*****
( 75/100/ 75)	HAWTHORNE	779.09	28.74	0.0
TEN YR PROD= 1485	MC ALESTER	570.08	20.04	21.6
CASE NO. 28	NEWPORT	536.85	19.32	*****
( 75/100/ 50)	HAWTHORNE	765.01	28.63	0.0
TEN YR PROD= 1350	MC ALESTER	558.14	19.92	22.1
CASE NO. 29	NEWPORT	525.55	19.22	*****
( 75/100/ 25)	HAWTHORNE	750.92	28.53	0.0
TEN YR PROD= 1215	MC ALESTER	546.20	19.82	22.7
CASE NO. 30	NEWPORT	514.26	19.12	*****
( 75/100/ 0)	HAWTHORNE	736.83	28.43	0.0
TEN YR PROD= 1080	MC ALESTER	534.26	19.71	23.3

SUPPLEMENTARY COMP-B SITE SELECTION  
TWO LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 31 ( 75/ 75/100) TEN YR PROD= 1485	NEWPORT HAWTHORNE MC ALESTER	544.40 774.43 566.13	19.40 28.70 20.00	***** 0.0 21.8
CASE NO. 32 ( 75/ 75/ 75) TEN YR PROD= 1350	NEWPORT HAWTHORNE MC ALESTER	533.11 760.34 554.19	19.29 28.60 19.89	***** 0.0 22.3
CASE NO. 33 ( 75/ 75/ 50) TEN YR PROD= 1215	NEWPORT HAWTHORNE MC ALESTER	521.82 746.26 542.25	19.18 28.50 19.78	***** 0.0 22.9
CASE NO. 34 ( 75/ 75/ 25) TEN YR PROD= 1080	NEWPORT HAWTHORNE MC ALESTER	510.52 732.17 530.31	19.09 28.40 19.68	***** 0.0 23.5
CASE NO. 35 ( 75/ 75/ 0) TEN YR PROD= 945	NEWPORT HAWTHORNE MC ALESTER	499.23 718.09 518.37	19.00 28.32 19.59	***** 0.0 24.2
CASE NO. 36 ( 75/ 50/100) TEN YR PROD= 1350	NEWPORT HAWTHORNE MC ALESTER	529.37 755.68 550.24	19.25 28.56 19.85	***** 0.0 22.5
CASE NO. 37 ( 75/ 50/ 75) TEN YR PROD= 1215	NEWPORT HAWTHORNE MC ALESTER	518.08 741.60 538.30	19.15 28.47 19.75	***** 0.0 23.1
CASE NO. 38 ( 75/ 50/ 50) TEN YR PROD= 1080	NEWPORT HAWTHORNE MC ALESTER	506.79 727.51 526.36	19.06 28.38 19.65	***** 0.0 23.7
CASE NO. 39 ( 75/ 50/ 25) TEN YR PROD= 945	NEWPORT HAWTHORNE MC ALESTER	495.49 713.42 514.41	18.97 28.29 19.56	***** 0.0 24.4
CASE NO. 40 ( 75/ 50/ 0) TEN YR PROD= 810	NEWPORT HAWTHORNE MC ALESTER	484.20 699.34 502.47	18.89 28.22 19.48	***** 0.0 25.0



SUPPLEMENTARY COMP-B SITE SELECTION  
TWO LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 41 ( 75/ 25/100)	NEWPORT HAWTHORNE	514.34 736.93	19.12 28.44	***** 0.0
TEN YR PROD= 1215	MC ALESTER	534.34	19.72	23.3
CASE NO. 42 ( 75/ 25/ 75)	NEWPORT HAWTHORNE	503.05 722.85	19.03 28.35	***** 0.0
TEN YR PROD= 1080	MC ALESTER	522.40	19.62	23.9
CASE NO. 43 ( 75/ 25/ 50)	NEWPORT HAWTHORNE	491.76 708.76	18.94 28.27	***** 0.0
TEN YR PROD= 945	MC ALESTER	510.46	19.54	24.6
CASE NO. 44 ( 75/ 25/ 25)	NEWPORT HAWTHORNE	480.46 694.67	18.86 28.19	***** 0.0
TEN YR PROD= 810	MC ALESTER	498.52	19.46	25.3
CASE NO. 45 ( 75/ 25/ 0)	NEWPORT HAWTHORNE	469.17 680.59	18.79 28.12	***** 0.0
TEN YR PROD= 675	MC ALESTER	486.58	19.39	26.0
CASE NO. 46 ( 75/ 0/100)	NEWPORT HAWTHORNE	499.31 718.18	19.00 28.32	***** 0.0
TEN YR PROD= 1080	MC ALESTER	518.45	19.59	24.2
CASE NO. 47 ( 75/ 0/ 75)	NEWPORT HAWTHORNE	488.02 704.10	18.91 28.24	***** 0.0
TEN YR PROD= 945	MC ALESTER	506.51	19.51	24.8
CASE NO. 48 ( 75/ 0/ 50)	NEWPORT HAWTHORNE	476.73 690.01	18.84 28.17	***** 0.0
TEN YR PROD= 810	MC ALESTER	494.57	19.43	25.5
CASE NO. 49 ( 75/ 0/ 25)	NEWPORT HAWTHORNE	465.43 675.92	18.77 28.10	***** 0.0
TEN YR PROD= 675	MC ALESTER	482.63	19.36	26.2
CASE NO. 50 ( 75/ 0/ 0)	NEWPORT HAWTHORNE	454.14 661.84	18.71 28.05	***** 0.0
TEN YR PROD= 540	MC ALESTER	470.69	19.30	26.9

SUPPLEMENTARY COMP-B SITE SELECTION  
TWO LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 51 ( 50/100/100 ) TEN YR PROD= 1440	NEWPORT HAWTHORNE MC ALESTER	531.38 758.19 552.36	19.27 28.58 19.87	***** 0.0 22.4
CASE NO. 52 ( 50/100/ 75 ) TEN YR PROD= 1305	NEWPORT HAWTHORNE MC ALESTER	520.09 744.10 540.42	19.17 28.48 19.77	***** 0.0 23.0
CASE NO. 53 ( 50/100/ 50 ) TEN YR PROD= 1170	NEWPORT HAWTHORNE MC ALESTER	508.80 730.02 528.48	19.07 28.39 19.67	***** 0.0 23.6
CASE NO. 54 ( 50/100/ 25 ) TEN YR PROD= 1035	NEWPORT HAWTHORNE MC ALESTER	497.50 715.93 516.54	18.98 28.31 19.58	***** 0.0 24.3
CASE NO. 55 ( 50/100/ 0 ) TEN YR PROD= 900	NEWPORT HAWTHORNE MC ALESTER	486.21 701.84 504.60	18.90 28.23 19.50	***** 0.0 24.9
CASE NO. 56 ( 50/ 75/100 ) TEN YR PROD= 1305	NEWPORT HAWTHORNE MC ALESTER	516.35 739.44 536.47	19.13 28.45 19.73	***** 0.0 23.2
CASE NO. 57 ( 50/ 75/ 75 ) TEN YR PROD= 1170	NEWPORT HAWTHORNE MC ALESTER	505.06 725.35 524.53	19.04 28.36 19.64	***** 0.0 23.8
CASE NO. 58 ( 50/ 75/ 50 ) TEN YR PROD= 1035	NEWPORT HAWTHORNE MC ALESTER	493.77 711.27 512.59	18.96 28.28 19.55	***** 0.0 24.5
CASE NO. 59 ( 50/ 75/ 25 ) TEN YR PROD= 900	NEWPORT HAWTHORNE MC ALESTER	482.47 697.18 500.65	18.88 28.20 19.47	***** 0.0 25.1
CASE NO. 60 ( 50/ 75/ 0 ) TEN YR PROD= 765	NEWPORT HAWTHORNE MC ALESTER	471.18 683.09 488.70	18.81 28.14 19.40	***** 0.0 25.8

SUPPLEMENTARY COMP-B SITE SELECTION  
TWO LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 61 ( 50/ 50/100)	NEWPORT HAWTHORNE	501.32 720.69	19.01 28.33	***** 0.0
TEN YR PROD= 1170	MC ALESTER	520.57	19.61	24.0
CASE NO. 62 ( 50/ 50/ 75)	NEWPORT HAWTHORNE	490.03 706.60	18.93 28.25	***** 0.0
TEN YR PROD= 1035	MC ALESTER	508.63	19.52	24.7
CASE NO. 63 ( 50/ 50/ 50)	NEWPORT HAWTHORNE	478.73 692.52	18.85 28.18	***** 0.0
TEN YR PROD= 900	MC ALESTER	496.69	19.45	25.4
CASE NO. 64 ( 50/ 50/ 25)	NEWPORT HAWTHORNE	467.44 678.43	18.78 28.11	***** 0.0
TEN YR PROD= 765	MC ALESTER	484.75	19.37	26.1
CASE NO. 65 ( 50/ 50/ 0)	NEWPORT HAWTHORNE	456.15 664.34	18.72 28.06	***** 0.0
TEN YR PROD= 630	MC ALESTER	472.81	19.31	26.8
CASE NO. 66 ( 50/ 25/100)	NEWPORT HAWTHORNE	486.29 701.94	18.90 28.23	***** 0.0
TEN YR PROD= 1035	MC ALESTER	504.68	19.50	24.9
CASE NO. 67 ( 50/ 25/ 75)	NEWPORT HAWTHORNE	475.00 687.85	18.83 28.16	***** 0.0
TEN YR PROD= 900	MC ALESTER	492.74	19.42	25.6
CASE NO. 68 ( 50/ 25/ 50)	NEWPORT HAWTHORNE	463.70 673.77	18.76 28.09	***** 0.0
TEN YR PROD= 765	MC ALESTER	480.80	19.35	26.3
CASE NO. 69 ( 50/ 25/ 25)	NEWPORT HAWTHORNE	452.41 659.68	18.70 28.04	***** 0.0
TEN YR PROD= 630	MC ALESTER	468.86	19.29	27.0
CASE NO. 70 ( 50/ 25/ 0)	NEWPORT HAWTHORNE	441.12 645.59	18.65 27.99	***** 0.0
TEN YR PROD= 495	MC ALESTER	456.92	19.24	27.8



SUPPLEMENTARY COMP-B SITE SELECTION  
TWO LINE CAPACITY  
COST /SENSITIVITY /RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 71 ( 50/ 0/100)	NEWPORT HAWTHORNE	471.26 683.19	18.81 28.14	***** 0.0
TEN YR PROD= 900	MC ALESTER	488.79	19.40	25.8
CASE NO. 72 ( 50/ 0/ 75)	NEWPORT HAWTHORNE	459.97 669.10	18.74 28.07	***** 0.0
TEN YR PROD= 765	MC ALESTER	476.85	19.33	26.5
CASE NO. 73 ( 50/ 0/ 50)	NEWPORT HAWTHORNE	448.67 655.02	18.69 28.02	***** 0.0
TEN YR PROD= 630	MC ALESTER	464.90	19.27	27.3
CASE NO. 74 ( 50/ 0/ 25)	NEWPORT HAWTHORNE	437.38 640.93	18.64 27.97	***** 0.0
TEN YR PROD= 495	MC ALESTER	452.96	19.22	28.0
CASE NO. 75 ( 50/ 0/ 0)	NEWPORT HAWTHORNE	426.09 626.85	18.59 27.93	***** 0.0
TEN YR PROD= 360	MC ALESTER	441.02	19.18	28.8
CASE NO. 76 ( 25/100/100)	NEWPORT HAWTHORNE	503.33 723.20	19.03 28.35	***** 0.0
TEN YR PROD= 1260	MC ALESTER	522.70	19.62	23.9
CASE NO. 77 ( 25/100/ 75)	NEWPORT HAWTHORNE	492.04 709.11	18.94 28.27	***** 0.0
TEN YR PROD= 1125	MC ALESTER	510.76	19.54	24.6
CASE NO. 78 ( 25/100/ 50)	NEWPORT HAWTHORNE	480.74 695.02	18.87 28.19	***** 0.0
TEN YR PROD= 990	MC ALESTER	498.82	19.46	25.2
CASE NO. 79 ( 25/100/ 25)	NEWPORT HAWTHORNE	469.45 680.94	18.80 28.13	***** 0.0
TEN YR PROD= 855	MC ALESTER	486.88	19.39	25.9
CASE NO. 80 ( 25/100/ 0)	NEWPORT HAWTHORNE	458.16 666.85	18.73 28.07	***** 0.0
TEN YR PROD= 720	MC ALESTER	474.93	19.32	26.7



SUPPLEMENTARY COMP-8 SITE SELECTION  
TWO LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 81 ( 25/ 75/100)	NEWPORT HAWTHORNE	488.30 704.45	18.92 28.24	***** 0.0
TEN YR PROD= 1125	MC ALESTER	506.81	19.51	24.8
CASE NO. 82 ( 25/ 75/ 75)	NEWPORT HAWTHORNE	477.01 690.36	18.84 28.17	***** 0.0
TEN YR PROD= 990	MC ALESTER	494.86	19.43	25.5
CASE NO. 83 ( 25/ 75/ 50)	NEWPORT HAWTHORNE	465.71 676.27	18.77 28.11	***** 0.0
TEN YR PROD= 855	MC ALESTER	482.92	19.36	26.2
CASE NO. 84 ( 25/ 75/ 25)	NEWPORT HAWTHORNE	454.42 662.19	18.71 28.05	***** 0.0
TEN YR PROD= 720	MC ALESTER	470.98	19.30	26.9
CASE NO. 85 ( 25/ 75/ 0)	NEWPORT HAWTHORNE	443.13 648.10	18.66 28.00	***** 0.0
TEN YR PROD= 585	MC ALESTER	459.04	19.25	27.6
CASE NO. 86 ( 25/ 50/100)	NEWPORT HAWTHORNE	473.27 685.70	18.82 28.15	***** 0.0
TEN YR PROD= 990	MC ALESTER	490.91	19.41	25.7
CASE NO. 87 ( 25/ 50/ 75)	NEWPORT HAWTHORNE	461.78 671.61	18.75 28.09	***** 0.0
TEN YR PROD= 855	MC ALESTER	478.97	19.34	26.4
CASE NO. 88 ( 25/ 50/ 50)	NEWPORT HAWTHORNE	450.68 657.52	18.69 28.03	***** 0.0
TEN YR PROD= 720	MC ALESTER	467.03	19.28	27.1
CASE NO. 89 ( 25/ 50/ 25)	NEWPORT HAWTHORNE	439.39 643.44	18.64 27.98	***** 0.0
TEN YR PROD= 585	MC ALESTER	455.09	19.23	27.9
CASE NO. 90 ( 25/ 50/ 0)	NEWPORT HAWTHORNE	428.10 629.35	18.60 27.94	***** 0.0
TEN YR PROD= 450	MC ALESTER	443.15	19.19	28.7

SUPPLEMENTARY COMP-B SITE SELECTION  
TWO LINE CAPACITY  
COST /SENSITIVITY /RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 91 ( 25/ 25/100)	NEWPORT HAWTHORNE	458.24 666.95	18.73 28.07	***** 0.0
TEN YR PROD= 855	MC ALESTER	475.02	19.32	26.6
CASE NO. 92 ( 25/ 25/ 75)	NEWPORT HAWTHORNE	446.95 652.86	18.68 28.01	***** 0.0
TEN YR PROD= 720	MC ALESTER	463.08	19.27	27.4
CASE NO. 93 ( 25/ 25/ 50)	NEWPORT HAWTHORNE	435.65 638.78	18.63 27.97	***** 0.0
TEN YR PROD= 585	MC ALESTER	451.14	19.22	28.1
CASE NO. 94 ( 25/ 25/ 25)	NEWPORT HAWTHORNE	424.36 624.69	18.59 27.93	***** 0.0
TEN YR PROD= 450	MC ALESTER	439.19	19.18	28.9
CASE NO. 95 ( 25/ 25/ 0)	NEWPORT HAWTHORNE	413.07 610.60	18.56 27.90	***** 0.0
TEN YR PROD= 315	MC ALESTER	427.25	19.14	29.7
CASE NO. 96 ( 25/ 0/100)	NEWPORT HAWTHORNE	443.21 648.20	18.66 28.00	***** 0.0
TEN YR PROD= 720	MC ALESTER	459.12	19.25	27.6
CASE NO. 97 ( 25/ 0/ 75)	NEWPORT HAWTHORNE	431.92 634.11	18.61 27.95	***** 0.0
TEN YR PROD= 585	MC ALESTER	447.18	19.20	28.4
CASE NO. 98 ( 25/ 0/ 50)	NEWPORT HAWTHORNE	420.62 620.03	18.58 27.92	***** 0.0
TEN YR PROD= 450	MC ALESTER	435.24	19.16	29.2
CASE NO. 99 ( 25/ 0/ 25)	NEWPORT HAWTHORNE	409.33 605.94	18.55 27.89	***** 0.0
TEN YR PROD= 315	MC ALESTER	423.30	19.13	30.0
CASE NO. 100 ( 25/ 0/ 0)	NEWPORT HAWTHORNE	398.04 591.85	18.52 27.87	***** 0.0
TEN YR PROD= 180	MC ALESTER	411.36	19.11	30.8

SUPPLEMENTARY COMP-B SITE SELECTION  
TWO LINE CAPACITY  
COST /SENSITIVITY /RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 101 ( 0/100/100)	NEWPORT HAWTHORNE	475.28 688.20	18.83 28.16	***** 0.0
TEN YR PROD= 1080	MC ALESTER	493.04	19.42	25.6
CASE NO. 102 ( 0/100/ 75)	NEWPORT HAWTHORNE	463.99 674.12	18.76 28.10	***** 0.0
TEN YR PROD= 945	MC ALESTER	481.10	19.35	26.3
CASE NO. 103 ( 0/100/ 50)	NEWPORT HAWTHORNE	452.69 660.03	18.70 28.04	***** 0.0
TEN YR PROD= 810	MC ALESTER	469.15	19.29	27.0
CASE NO. 104 ( 0/100/ 25)	NEWPORT HAWTHORNE	441.40 645.94	18.65 27.99	***** 0.0
TEN YR PROD= 675	MC ALESTER	457.21	19.24	27.8
CASE NO. 105 ( 0/100/ 0)	NEWPORT HAWTHORNE	430.11 631.86	18.61 27.95	***** 0.0
TEN YR PROD= 540	MC ALESTER	445.27	19.20	28.5
CASE NO. 106 ( 0/ 75/100)	NEWPORT HAWTHORNE	460.25 669.45	18.74 28.08	***** 0.0
TEN YR PROD= 945	MC ALESTER	477.14	19.33	26.5
CASE NO. 107 ( 0/ 75/ 75)	NEWPORT HAWTHORNE	448.95 655.37	18.69 28.02	***** 0.0
TEN YR PROD= 810	MC ALESTER	465.20	19.28	27.3
CASE NO. 108 ( 0/ 75/ 50)	NEWPORT HAWTHORNE	437.66 641.28	18.64 27.97	***** 0.0
TEN YR PROD= 675	MC ALESTER	453.26	19.23	28.0
CASE NO. 109 ( 0/ 75/ 25)	NEWPORT HAWTHORNE	426.37 627.20	18.60 27.93	***** 0.0
TEN YR PROD= 540	MC ALESTER	441.32	19.18	28.8
CASE NO. 110 ( 0/ 75/ 0)	NEWPORT HAWTHORNE	415.08 613.11	18.56 27.90	***** 0.0
TEN YR PROD= 405	MC ALESTER	429.38	19.15	29.6



SUPPLEMENTARY COMP-B SITE SELECTION  
TWO LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 111 ( 0/ 50/100)	NEWPORT HAWTHORNE	445.22 650.71	18.67 28.01	***** 0.0
TEN YR PROD= 810	MC ALESTER	461.25	19.26	27.5
CASE NO. 112 ( 0/ 50/ 75)	NEWPORT HAWTHORNE	433.92 636.62	18.62 27.96	***** 0.0
TEN YR PROD= 675	MC ALESTER	449.31	19.21	28.3
CASE NO. 113 ( 0/ 50/ 50)	NEWPORT HAWTHORNE	422.63 622.53	18.58 27.92	***** 0.0
TEN YR PROD= 540	MC ALESTER	437.37	19.17	29.1
CASE NO. 114 ( 0/ 50/ 25)	NEWPORT HAWTHORNE	411.34 608.45	18.55 27.89	***** 0.0
TEN YR PROD= 405	MC ALESTER	425.43	19.14	29.9
CASE NO. 115 ( 0/ 50/ 0)	NEWPORT HAWTHORNE	400.05 594.36	18.53 27.87	***** 0.0
TEN YR PROD= 270	MC ALESTER	413.48	19.11	30.7
CASE NO. 116 ( 0/ 25/100)	NEWPORT HAWTHORNE	430.19 631.96	18.61 27.95	***** 0.0
TEN YR PROD= 675	MC ALESTER	445.35	19.20	28.5
CASE NO. 117 ( 0/ 25/ 75)	NEWPORT HAWTHORNE	418.89 617.87	18.57 27.91	***** 0.0
TEN YR PROD= 540	MC ALESTER	433.41	19.16	29.3
CASE NO. 118 ( 0/ 25/ 50)	NEWPORT HAWTHORNE	407.60 603.78	18.54 27.88	***** 0.0
TEN YR PROD= 405	MC ALESTER	421.47	19.13	30.1
CASE NO. 119 ( 0/ 25/ 25)	NEWPORT HAWTHORNE	396.31 589.70	18.52 27.86	***** 0.0
TEN YR PROD= 270	MC ALESTER	409.53	19.11	31.0
CASE NO. 120 ( 0/ 25/ 0)	NEWPORT HAWTHORNE	385.02 575.61	18.51 27.85	***** 0.0
TEN YR PROD= 135	MC ALESTER	397.59	19.09	31.8

SUPPLEMENTARY COMP-B SITE SELECTION  
TWO LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 121	NEWPORT	415.16	18.56	*****
( 0/ 0/100)	HAWTHORNE	613.21	27.90	0.0
TEN YR PROD= 540	MC ALESTER	429.46	19.15	29.6
CASE NO. 122	NEWPORT	403.86	18.53	*****
( 0/ 0/ 75)	HAWTHORNE	599.12	27.88	0.0
TEN YR PROD= 405	MC ALESTER	417.52	19.12	30.4
CASE NO. 123	NEWPORT	392.57	18.51	*****
( 0/ 0/ 50)	HAWTHORNE	585.03	27.86	0.0
TEN YR PROD= 270	MC ALESTER	405.58	19.10	31.2
CASE NO. 124	NEWPORT	381.28	18.50	*****
( 0/ 0/ 25)	HAWTHORNE	570.95	27.85	0.0
TEN YR PROD= 135	MC ALESTER	393.64	19.09	32.1
CASE NO. 125	NEWPORT	369.99	18.50	*****
( 0/ 0/ 0)	HAWTHORNE	556.86	27.84	0.0
TEN YR PROD= 0	MC ALESTER	381.70	19.08	33.0

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SUPPLEMENTARY RDX-HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 1 (100/100/100)	NEWPORT HAWTHORNE	917.41 1244.79	30.14 43.87	***** 0.0
TEN YR PROD= 3600	MC ALESTER	942.96	31.03	27.7
CASE NO. 2 (100/100/ 75)	NEWPORT HAWTHORNE	898.86 1223.99	29.93 43.71	***** 0.0
TEN YR PROD= 3330	MC ALESTER	924.04	30.83	27.9
CASE NO. 3 (100/100/ 50)	NEWPORT HAWTHORNE	880.31 1203.18	29.73 43.55	***** 0.0
TEN YR PROD= 3060	MC ALESTER	905.12	30.63	28.1
CASE NO. 4 (100/100/ 25)	NEWPORT HAWTHORNE	861.76 1182.37	29.54 43.40	***** 0.0
TEN YR PROD= 2790	MC ALESTER	886.20	30.44	28.2
CASE NO. 5 (100/100/ 0)	NEWPORT HAWTHORNE	843.21 1161.57	29.36 43.26	***** 0.0
TEN YR PROD= 2520	MC ALESTER	867.28	30.27	28.4
CASE NO. 6 (100/ 75/100)	NEWPORT HAWTHORNE	892.72 1217.10	29.86 43.65	***** 0.0
TEN YR PROD= 3330	MC ALESTER	917.78	30.76	27.9
CASE NO. 7 (100/ 75/ 75)	NEWPORT HAWTHORNE	874.17 1196.29	29.67 43.50	***** 0.0
TEN YR PROD= 3060	MC ALESTER	898.86	30.57	28.1
CASE NO. 8 (100/ 75/ 50)	NEWPORT HAWTHORNE	855.62 1175.49	29.48 43.35	***** 0.0
TEN YR PROD= 2790	MC ALESTER	879.94	30.38	28.3
CASE NO. 9 (100/ 75/ 25)	NEWPORT HAWTHORNE	837.07 1154.68	29.31 43.21	***** 0.0
TEN YR PROD= 2520	MC ALESTER	861.02	30.21	28.5
CASE NO. 10 (100/ 75/ 0)	NEWPORT HAWTHORNE	818.53 1133.87	29.14 43.08	***** 0.0
TEN YR PROD= 2250	MC ALESTER	842.10	30.05	28.7



SUPPLEMENTARY RDX-HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL5= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 11	NEWPORT	868.03	29.60	*****
(100/ 50/100)	HAWTHORNE	1189.41	43.45	0.0
TEN YR PROD= 3060	MC ALESTER	892.59	30.50	28.2
CASE NO. 12	NEWPORT	849.48	29.42	*****
(100/ 50/ 75)	HAWTHORNE	1168.60	43.31	0.0
TEN YR PROD= 2790	MC ALESTER	873.67	30.32	28.3
CASE NO. 13	NEWPORT	830.93	29.25	*****
(100/ 50/ 50)	HAWTHORNE	1147.79	43.17	0.0
TEN YR PROD= 2520	MC ALESTER	854.75	30.15	28.5
CASE NO. 14	NEWPORT	812.39	29.09	*****
(100/ 50/ 25)	HAWTHORNE	1126.99	43.04	0.0
TEN YR PROD= 2250	MC ALESTER	835.83	30.00	28.7
CASE NO. 15	NEWPORT	793.84	28.94	*****
(100/ 50/ 0)	HAWTHORNE	1106.18	42.93	0.0
TEN YR PROD= 1980	MC ALESTER	816.91	29.85	28.9
CASE NO. 16	NEWPORT	843.34	29.36	*****
(100/ 25/100)	HAWTHORNE	1161.71	43.26	0.0
TEN YR PROD= 2790	MC ALESTER	867.41	30.27	28.4
CASE NO. 17	NEWPORT	824.79	29.20	*****
(100/ 25/ 75)	HAWTHORNE	1140.91	43.13	0.0
TEN YR PROD= 2520	MC ALESTER	848.49	30.10	28.6
CASE NO. 18	NEWPORT	806.25	29.04	*****
(100/ 25/ 50)	HAWTHORNE	1120.10	43.00	0.0
TEN YR PROD= 2250	MC ALESTER	829.57	29.94	28.8
CASE NO. 19	NEWPORT	787.70	28.89	*****
(100/ 25/ 25)	HAWTHORNE	1099.29	42.89	0.0
TEN YR PROD= 1980	MC ALESTER	810.65	29.80	29.0
CASE NO. 20	NEWPORT	769.15	28.75	*****
(100/ 25/ 0)	HAWTHORNE	1078.49	42.78	0.0
TEN YR PROD= 1710	MC ALESTER	791.73	29.66	29.2

## SUPPLEMENTARY RDX-HMX SITE SELECTION

FOUR LINE CAPACITY

COST / SENSITIVITY / RISK

INCREASE IN NEWPORT AAP COSTS

CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%

(COST IN \$MILLION DISCOUNTED AT 10%)

(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 21	NEWPORT	818.66	29.14	*****
(100/ 0/100)	HAWTHORNE	1134.02	43.09	0.0
TEN YR PROD= 2520	MC ALESTER	842.23	30.05	28.7
CASE NO. 22	NEWPORT	800.11	28.99	*****
(100/ 0/ 75)	HAWTHORNE	1113.21	42.96	0.0
TEN YR PROD= 2250	MC ALESTER	823.31	29.90	28.9
CASE NO. 23	NEWPORT	781.56	28.84	*****
(100/ 0/ 50)	HAWTHORNE	1092.41	42.85	0.0
TEN YR PROD= 1980	MC ALESTER	804.39	29.75	29.1
CASE NO. 24	NEWPORT	763.01	28.71	*****
(100/ 0/ 25)	HAWTHORNE	1071.60	42.75	0.0
TEN YR PROD= 1710	MC ALESTER	785.47	29.62	29.3
CASE NO. 25	NEWPORT	744.46	28.59	*****
(100/ 0/ 0)	HAWTHORNE	1050.79	42.65	0.0
TEN YR PROD= 1440	MC ALESTER	766.55	29.50	29.5
CASE NO. 26	NEWPORT	871.33	29.64	*****
( 75/100/100)	HAWTHORNE	1193.11	43.48	0.0
TEN YR PROD= 3240	MC ALESTER	895.96	30.54	28.1
CASE NO. 27	NEWPORT	852.78	29.45	*****
( 75/100/ 75)	HAWTHORNE	1172.30	43.33	0.0
TEN YR PROD= 2970	MC ALESTER	877.04	30.36	28.3
CASE NO. 28	NEWPORT	834.23	29.28	*****
( 75/100/ 50)	HAWTHORNE	1151.49	43.19	0.0
TEN YR PROD= 2700	MC ALESTER	858.12	30.18	28.5
CASE NO. 29	NEWPORT	815.69	29.12	*****
( 75/100/ 25)	HAWTHORNE	1130.69	43.07	0.0
TEN YR PROD= 2430	MC ALESTER	839.20	30.02	28.7
CASE NO. 30	NEWPORT	797.14	28.98	*****
( 75/100/ 0)	HAWTHORNE	1109.88	42.95	0.0
TEN YR PROD= 2160	MC ALESTER	820.28	29.87	28.9

## SUPPLEMENTARY RDX-HMX SITE SELECTION

## FOUR LINE CAPACITY

## COST /SENSITIVITY /RISK

## INCREASE IN NEWPORT AAP COSTS

CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%

(COST IN \$MILLION DISCOUNTED AT 10%)

(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 31	NEWPORT	846.64	29.39	*****
( 75/ 75/100)	HAWTHORNE	1165.41	43.28	0.0
TEN YR PROD= 2970	MC ALESTER	870.78	30.30	28.4
CASE NO. 32	NEWPORT	828.09	29.22	*****
( 75/ 75/ 75)	HAWTHORNE	1144.61	43.15	0.0
TEN YR PROD= 2700	MC ALESTER	851.86	30.13	28.6
CASE NO. 33	NEWPORT	809.55	29.07	*****
( 75/ 75/ 50)	HAWTHORNE	1123.80	43.02	0.0
TEN YR PROD= 2430	MC ALESTER	832.94	29.97	28.8
CASE NO. 34	NEWPORT	791.00	28.92	*****
( 75/ 75/ 25)	HAWTHORNE	1102.99	42.91	0.0
TEN YR PROD= 2160	MC ALESTER	814.02	29.82	29.0
CASE NO. 35	NEWPORT	772.45	28.78	*****
( 75/ 75/ 0)	HAWTHORNE	1082.19	42.80	0.0
TEN YR PROD= 1890	MC ALESTER	795.10	29.69	29.2
CASE NO. 36	NEWPORT	821.96	29.17	*****
( 75/ 50/100)	HAWTHORNE	1137.72	43.11	0.0
TEN YR PROD= 2700	MC ALESTER	845.59	30.08	28.6
CASE NO. 37	NEWPORT	803.41	29.01	*****
( 75/ 50/ 75)	HAWTHORNE	1116.91	42.99	0.0
TEN YR PROD= 2430	MC ALESTER	826.67	29.92	28.8
CASE NO. 38	NEWPORT	784.86	28.87	*****
( 75/ 50/ 50)	HAWTHORNE	1096.11	42.87	0.0
TEN YR PROD= 2160	MC ALESTER	807.75	29.78	29.0
CASE NO. 39	NEWPORT	766.31	28.73	*****
( 75/ 50/ 25)	HAWTHORNE	1075.30	42.77	0.0
TEN YR PROD= 1890	MC ALESTER	788.83	29.65	29.3
CASE NO. 40	NEWPORT	747.76	28.61	*****
( 75/ 50/ 0)	HAWTHORNE	1054.49	42.67	0.0
TEN YR PROD= 1620	MC ALESTER	769.91	29.52	29.5



SUPPLEMENTARY RDX-HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 41	NEWPORT	797.27	28.97	*****
( 75/ 25/100)	HAWTHORNE	1110.03	42.95	0.0
TEN YR PROD= 2430	MC ALESTER	820.41	29.87	28.9
CASE NO. 42	NEWPORT	778.72	28.82	*****
( 75/ 25/ 75)	HAWTHORNE	1089.22	42.84	0.0
TEN YR PROD= 2160	MC ALESTER	801.49	29.73	29.1
CASE NO. 43	NEWPORT	760.17	28.69	*****
( 75/ 25/ 50)	HAWTHORNE	1068.41	42.73	0.0
TEN YR PROD= 1890	MC ALESTER	782.57	29.60	29.3
CASE NO. 44	NEWPORT	741.62	28.57	*****
( 75/ 25/ 25)	HAWTHORNE	1047.61	42.64	0.0
TEN YR PROD= 1620	MC ALESTER	763.65	29.48	29.6
CASE NO. 45	NEWPORT	723.07	28.46	*****
( 75/ 25/ 0)	HAWTHORNE	1026.80	42.56	0.0
TEN YR PROD= 1350	MC ALESTER	744.73	29.38	29.8
CASE NO. 46	NEWPORT	772.58	28.78	*****
( 75/ 0/100)	HAWTHORNE	1082.33	42.80	0.0
TEN YR PROD= 2160	MC ALESTER	795.23	29.69	29.2
CASE NO. 47	NEWPORT	754.03	28.65	*****
( 75/ 0/ 75)	HAWTHORNE	1061.53	42.70	0.0
TEN YR PROD= 1890	MC ALESTER	776.31	29.56	29.4
CASE NO. 48	NEWPORT	735.48	28.54	*****
( 75/ 0/ 50)	HAWTHORNE	1040.72	42.61	0.0
TEN YR PROD= 1620	MC ALESTER	757.39	29.45	29.7
CASE NO. 49	NEWPORT	716.94	28.43	*****
( 75/ 0/ 25)	HAWTHORNE	1019.91	42.53	0.0
TEN YR PROD= 1350	MC ALESTER	738.47	29.34	29.9
CASE NO. 50	NEWPORT	698.39	28.34	*****
( 75/ 0/ 0)	HAWTHORNE	999.11	42.46	0.0
TEN YR PROD= 1080	MC ALESTER	719.55	29.25	30.2

SUPPLEMENTARY RDX-HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL5= 0% UTL5= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 51	NEWPORT	825.26	29.20	*****
( 50/100/100)	HAWTHORNE	1141.42	43.13	0.0
TEN YR PROD= 2880	MC ALESTER	848.96	30.10	28.6
CASE NO. 52	NEWPORT	806.71	29.04	*****
( 50/100/ 75)	HAWTHORNE	1120.62	43.01	0.0
TEN YR PROD= 2610	MC ALESTER	830.04	29.95	28.8
CASE NO. 53	NEWPORT	788.16	28.89	*****
( 50/100/ 50)	HAWTHORNE	1099.81	42.89	0.0
TEN YR PROD= 2340	MC ALESTER	811.12	29.80	29.0
CASE NO. 54	NEWPORT	769.61	28.76	*****
( 50/100/ 25)	HAWTHORNE	1079.00	42.78	0.0
TEN YR PROD= 2070	MC ALESTER	792.20	29.67	29.2
CASE NO. 55	NEWPORT	751.06	28.63	*****
( 50/100/ 0)	HAWTHORNE	1058.20	42.69	0.0
TEN YR PROD= 1800	MC ALESTER	773.28	29.54	29.5
CASE NO. 56	NEWPORT	800.57	28.99	*****
( 50/ 75/100)	HAWTHORNE	1113.73	42.97	0.0
TEN YR PROD= 2610	MC ALESTER	823.78	29.90	28.9
CASE NO. 57	NEWPORT	782.02	28.85	*****
( 50/ 75/ 75)	HAWTHORNE	1092.92	42.85	0.0
TEN YR PROD= 2340	MC ALESTER	804.86	29.76	29.1
CASE NO. 58	NEWPORT	763.47	28.71	*****
( 50/ 75/ 50)	HAWTHORNE	1072.12	42.75	0.0
TEN YR PROD= 2070	MC ALESTER	785.94	29.63	29.3
CASE NO. 59	NEWPORT	744.92	28.59	*****
( 50/ 75/ 25)	HAWTHORNE	1051.31	42.66	0.0
TEN YR PROD= 1800	MC ALESTER	767.02	29.51	29.5
CASE NO. 60	NEWPORT	726.38	28.48	*****
( 50/ 75/ 0)	HAWTHORNE	1030.50	42.57	0.0
TEN YR PROD= 1530	MC ALESTER	748.10	29.40	29.8

SUPPLEMENTARY RDX-HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 61	NEWPORT	775.88	28.80	*****
( 50/ 50/100)	HAWTHORNE	1086.03	42.82	0.0
TEN YR PROD= 2340	MC ALESTER	798.60	29.71	29.2
CASE NO. 62	NEWPORT	757.33	28.07	*****
( 50/ 50/ 75)	HAWTHORNE	1065.23	42.72	0.0
TEN YR PROD= 2070	MC ALESTER	779.67	29.58	29.4
CASE NO. 63	NEWPORT	738.78	28.56	*****
( 50/ 50/ 50)	HAWTHORNE	1044.42	42.63	0.0
TEN YR PROD= 1800	MC ALESTER	760.75	29.47	29.6
CASE NO. 64	NEWPORT	720.24	28.45	*****
( 50/ 50/ 25)	HAWTHORNE	1023.61	42.54	0.0
TEN YR PROD= 1530	MC ALESTER	741.83	29.36	29.9
CASE NO. 65	NEWPORT	701.69	28.35	*****
( 50/ 50/ 0)	HAWTHORNE	1002.81	42.47	0.0
TEN YR PROD= 1260	MC ALESTER	722.91	29.27	30.1
CASE NO. 66	NEWPORT	751.19	28.63	*****
( 50/ 25/100)	HAWTHORNE	1058.34	42.69	0.0
TEN YR PROD= 2070	MC ALESTER	773.41	29.54	29.5
CASE NO. 67	NEWPORT	732.64	28.52	*****
( 50/ 25/ 75)	HAWTHORNE	1037.53	42.60	0.0
TEN YR PROD= 1800	MC ALESTER	754.49	29.43	29.7
CASE NO. 68	NEWPORT	714.10	28.42	*****
( 50/ 25/ 50)	HAWTHORNE	1016.73	42.52	0.0
TEN YR PROD= 1530	MC ALESTER	735.57	29.33	29.9
CASE NO. 69	NEWPORT	695.55	28.32	*****
( 50/ 25/ 25)	HAWTHORNE	995.92	42.45	0.0
TEN YR PROD= 1260	MC ALESTER	716.65	29.24	30.2
CASE NO. 70	NEWPORT	677.00	28.24	*****
( 50/ 25/ 0)	HAWTHORNE	975.11	42.38	0.0
TEN YR PROD= 990	MC ALESTER	697.73	29.16	30.5



SUPPLEMENTARY RDX-HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTLs= 0% UTLs= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 71	NEWPORT	726.50	28.48	*****
( 50/ 0/100)	HAWTHORNE	1030.65	42.57	0.0
TEN YR PROD= 1800	MC ALESTER	748.23	29.40	29.8
CASE NO. 72	NEWPORT	707.96	28.38	*****
( 50/ 0/ 75)	HAWTHORNE	1009.84	42.49	0.0
TEN YR PROD= 1530	MC ALESTER	729.31	29.30	30.0
CASE NO. 73	NEWPORT	689.41	28.30	*****
( 50/ 0/ 50)	HAWTHORNE	989.03	42.42	0.0
TEN YR PROD= 1260	MC ALESTER	710.39	29.21	30.3
CASE NO. 74	NEWPORT	670.86	28.22	*****
( 50/ 0/ 25)	HAWTHORNE	968.23	42.37	0.0
TEN YR PROD= 990	MC ALESTER	691.47	29.14	30.6
CASE NO. 75	NEWPORT	652.31	28.15	*****
( 50/ 0/ 0)	HAWTHORNE	947.42	42.32	0.0
TEN YR PROD= 720	MC ALESTER	672.55	29.07	30.9
CASE NO. 76	NEWPORT	179.18	28.83	*****
( 25/100/100)	HAWTHORNE	1089.74	42.84	0.0
TEN YR PROD= 2520	MC ALESTER	801.96	29.74	29.1
CASE NO. 77	NEWPORT	760.63	28.70	*****
( 25/100/ 75)	HAWTHORNE	1068.93	42.74	0.0
TEN YR PROD= 2250	MC ALESTER	783.04	29.61	29.3
CASE NO. 78	NEWPORT	742.08	28.58	*****
( 25/100/ 50)	HAWTHORNE	1048.12	42.64	0.0
TEN YR PROD= 1980	MC ALESTER	764.12	29.49	29.6
CASE NO. 79	NEWPORT	723.54	28.47	*****
( 25/100/ 25)	HAWTHORNE	1027.32	42.56	0.0
TEN YR PROD= 1710	MC ALESTER	745.20	29.38	29.8
CASE NO. 80	NEWPORT	704.99	28.37	*****
( 25/100/ 0)	HAWTHORNE	1006.51	42.48	0.0
TEN YR PROD= 1440	MC ALESTER	726.28	29.28	30.1

SUPPLEMENTARY RDX-HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 81	NEWPORT	754.49	28.65	*****
( 25/ 75/100)	HAWTHORNE	1062.04	42.70	0.0
TEN YR PROD= 2250	MC ALESTER	776.78	29.57	29.4
CASE NO. 82	NEWPORT	735.94	28.54	*****
( 25/ 75/ 75)	HAWTHORNE	1041.24	42.61	0.0
TEN YR PROD= 1980	MC ALESTER	757.86	29.45	29.7
CASE NO. 83	NEWPORT	717.40	28.43	*****
( 25/ 75/ 50)	HAWTHORNE	1020.43	42.53	0.0
TEN YR PROD= 1710	MC ALESTER	738.94	29.35	29.9
CASE NO. 84	NEWPORT	698.85	28.34	*****
( 25/ 75/ 25)	HAWTHORNE	999.62	42.46	0.0
TEN YR PROD= 1440	MC ALESTER	720.02	29.25	30.2
CASE NO. 85	NEWPORT	680.30	28.26	*****
( 25/ 75/ 0)	HAWTHORNE	978.82	42.39	0.0
TEN YR PROD= 1170	MC ALESTER	701.10	29.17	30.4
CASE NO. 86	NEWPORT	729.80	28.50	*****
( 25/ 50/100)	HAWTHORNE	1034.35	42.58	0.0
TEN YR PROD= 1980	MC ALESTER	751.60	29.42	29.7
CASE NO. 87	NEWPORT	711.26	28.40	*****
( 25/ 50/ 75)	HAWTHORNE	1013.54	42.51	0.0
TEN YR PROD= 1710	MC ALESTER	732.68	29.32	30.0
CASE NO. 88	NEWPORT	692.71	28.31	*****
( 25/ 50/ 50)	HAWTHORNE	992.74	42.44	0.0
TEN YR PROD= 1440	MC ALESTER	713.75	29.23	30.2
CASE NO. 89	NEWPORT	674.16	28.23	*****
( 25/ 50/ 25)	HAWTHORNE	971.93	42.38	0.0
TEN YR PROD= 1170	MC ALESTER	694.83	29.15	30.5
CASE NO. 90	NEWPORT	655.61	28.17	*****
( 25/ 50/ 0)	HAWTHORNE	951.12	42.32	0.0
TEN YR PROD= 900	MC ALESTER	675.91	29.08	30.8

SUPPLEMENTARY RDX-HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 91 ( 25/ 25/100)	NEWPORT HAWTHORNE	705.12 1006.66	28.37 42.48	***** 0.0
TEN YR PROD= 1710	MC ALESTER	726.41	29.28	30.1
CASE NO. 92 ( 25/ 25/ 75)	NEWPORT HAWTHORNE	686.57 985.85	28.28 42.42	***** 0.0
TEN YR PROD= 1440	MC ALESTER	707.49	29.20	30.3
CASE NO. 93 ( 25/ 25/ 50)	NEWPORT HAWTHORNE	668.02 965.04	28.21 42.36	***** 0.0
TEN YR PROD= 1170	MC ALESTER	688.57	29.13	30.6
CASE NO. 94 ( 25/ 25/ 25)	NEWPORT HAWTHORNE	649.47 944.24	28.15 42.31	***** 0.0
TEN YR PROD= 900	MC ALESTER	669.65	29.06	30.9
CASE NO. 95 ( 25/ 25/ 0)	NEWPORT HAWTHORNE	630.92 923.43	28.09 42.27	***** 0.0
TEN YR PROD= 630	MC ALESTER	650.73	29.01	31.2
CASE NO. 96 ( 25/ 0/100)	NEWPORT HAWTHORNE	680.43 978.96	28.26 42.40	***** 0.0
TEN YR PROD= 1440	MC ALESTER	701.23	29.17	30.4
CASE NO. 97 ( 25/ 0/ 75)	NEWPORT HAWTHORNE	661.88 958.16	28.19 42.34	***** 0.0
TEN YR PROD= 1170	MC ALESTER	682.31	29.10	30.7
CASE NO. 98 ( 25/ 0/ 50)	NEWPORT HAWTHORNE	643.33 937.35	28.13 42.29	***** 0.0
TEN YR PROD= 900	MC ALESTER	663.39	29.05	31.0
CASE NO. 99 ( 25/ 0/ 25)	NEWPORT HAWTHORNE	624.78 916.54	28.08 42.26	***** 0.0
TEN YR PROD= 630	MC ALESTER	644.47	29.00	31.3
CASE NO. 100 ( 25/ 0/ 0)	NEWPORT HAWTHORNE	606.24 895.74	28.04 42.23	***** 0.0
TEN YR PROD= 360	MC ALESTER	625.55	28.96	31.6



SUPPLEMENTARY RDX-HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 101	NEWPORT	733.10	28.52	*****
( 0/100/100)	HAWTHORNE	1038.05	42.60	0.0
TEN YR PROD= 2160	MC ALESTER	754.96	29.43	29.7
CASE NO. 102	NEWPORT	714.56	28.42	*****
( 0/100/ 75)	HAWTHORNE	1017.24	42.52	0.0
TEN YR PROD= 1890	MC ALESTER	736.04	29.33	29.9
CASE NO. 103	NEWPORT	696.01	28.33	*****
( 0/100/ 50)	HAWTHORNE	996.44	42.45	0.0
TEN YR PROD= 1620	MC ALESTER	717.12	29.24	30.2
CASE NO. 104	NEWPORT	677.46	28.25	*****
( 0/100/ 25)	HAWTHORNE	975.63	42.39	0.0
TEN YR PROD= 1350	MC ALESTER	698.20	29.16	30.5
CASE NO. 105	NEWPORT	658.91	28.18	*****
( 0/100/ 0)	HAWTHORNE	954.83	42.33	0.0
TEN YR PROD= 1080	MC ALESTER	679.28	29.09	30.8
CASE NO. 106	NEWPORT	708.42	28.39	*****
( 0/ 75/100)	HAWTHORNE	1010.36	42.49	0.0
TEN YR PROD= 1890	MC ALESTER	729.78	29.30	30.0
CASE NO. 107	NEWPORT	689.87	28.30	*****
( 0/ 75/ 75)	HAWTHORNE	989.55	42.43	0.0
TEN YR PROD= 1620	MC ALESTER	710.86	29.21	30.3
CASE NO. 108	NEWPORT	671.32	28.22	*****
( 0/ 75/ 50)	HAWTHORNE	968.74	42.37	0.0
TEN YR PROD= 1350	MC ALESTER	691.94	29.14	30.6
CASE NO. 109	NEWPORT	652.77	28.16	*****
( 0/ 75/ 25)	HAWTHORNE	947.94	42.32	0.0
TEN YR PROD= 1080	MC ALESTER	673.02	29.07	30.8
CASE NO. 110	NEWPORT	634.22	28.10	*****
( 0/ 75/ 0)	HAWTHORNE	927.13	42.28	0.0
TEN YR PROD= 810	MC ALESTER	654.10	29.02	31.1

## SUPPLEMENTARY RDX-HMX SITE SELECTION

## FOUR LINE CAPACITY

## COST /SENSITIVITY /RISK

## INCREASE IN NEWPORT AAP COSTS

CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%

(COST IN \$MILLION DISCOUNTED AT 10%)

(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 111	NEWPORT	683.73	28.27	*****
( 0/ 50/100)	HAWTHORNE	982.66	42.41	0.0
TEN YR PROD= 1620	MC ALESTER	704.60	29.19	30.4
CASE NO. 112	NEWPORT	665.18	28.20	*****
( 0/ 50/ 75)	HAWTHORNE	961.86	42.35	0.0
TEN YR PROD= 1350	MC ALESTER	685.68	29.12	30.7
CASE NO. 113	NEWPORT	646.63	28.14	*****
( 0/ 50/ 50)	HAWTHORNE	941.05	42.30	0.0
TEN YR PROD= 1080	MC ALESTER	666.75	29.05	30.9
CASE NO. 114	NEWPORT	628.09	28.09	*****
( 0/ 50/ 25)	HAWTHORNE	920.24	42.26	0.0
TEN YR PROD= 810	MC ALESTER	647.83	29.01	31.2
CASE NO. 115	NEWPORT	609.54	28.05	*****
( 0/ 50/ 0)	HAWTHORNE	899.44	42.24	0.0
TEN YR PROD= 540	MC ALESTER	628.91	28.97	31.5
CASE NO. 116	NEWPORT	659.04	28.18	*****
( 0/ 25/100)	HAWTHORNE	954.97	42.33	0.0
TEN YR PROD= 1350	MC ALESTER	679.41	29.09	30.7
CASE NO. 117	NEWPORT	640.49	28.12	*****
( 0/ 25/ 75)	HAWTHORNE	934.16	42.29	0.0
TEN YR PROD= 1080	MC ALESTER	660.49	29.04	31.0
CASE NO. 118	NEWPORT	621.95	28.07	*****
( 0/ 25/ 50)	HAWTHORNE	913.36	42.25	0.0
TEN YR PROD= 810	MC ALESTER	641.57	28.99	31.3
CASE NO. 119	NEWPORT	603.40	28.04	*****
( 0/ 25/ 25)	HAWTHORNE	892.55	42.23	0.0
TEN YR PROD= 540	MC ALESTER	622.65	28.96	31.6
CASE NO. 120	NEWPORT	584.85	28.02	*****
( 0/ 25/ 0)	HAWTHORNE	871.74	42.21	0.0
TEN YR PROD= 270	MC ALESTER	603.73	28.94	32.0

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SUPPLEMENTARY RDX-HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTLs= 0% UTLs= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 121	NEWPORT	634.35	28.10	*****
( 0/ 0/100)	HAWTHORNE	927.28	42.28	0.0
TEN YR PROD= 1080	MC ALESTER	654.23	29.02	31.1
CASE NO. 122	NEWPORT	615.81	28.06	*****
( 0/ 0/ 75)	HAWTHORNE	906.47	42.24	0.0
TEN YR PROD= 810	MC ALESTER	635.31	28.98	31.4
CASE NO. 123	NEWPORT	597.26	28.03	*****
( 0/ 0/ 50)	HAWTHORNE	885.66	42.22	0.0
TEN YR PROD= 540	MC ALESTER	616.39	28.95	31.7
CASE NO. 124	NEWPORT	578.71	28.01	*****
( 0/ 0/ 25)	HAWTHORNE	864.86	42.21	0.0
TEN YR PROD= 270	MC ALESTER	597.47	28.93	32.1
CASE NO. 125	NEWPORT	560.16	28.01	*****
( 0/ 0/ 0)	HAWTHORNE	844.05	42.20	0.0
TEN YR PROD= 0	MC ALESTER	578.55	28.93	32.4

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RDX - HMX SITE SELECTION  
TWO LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 1 (100/100/100)	NEWPORT HAWTHORNE	548.59 757.21	19.32 28.48	***** 0.0
TEN YR PROD= 1800	MC ALESTER	563.88	19.89	29.1
CASE NO. 2 (100/100/ 75)	NEWPORT HAWTHORNE	539.31 746.81	19.24 29.42	***** 0.0
TEN YR PROD= 1665	MC ALESTER	554.42	19.81	29.2
CASE NO. 3 (100/100/ 50)	NEWPORT HAWTHORNE	530.04 736.40	19.16 28.36	***** 0.0
TEN YR PROD= 1530	MC ALESTER	544.96	19.74	29.4
CASE NO. 4 (100/100/ 25)	NEWPORT HAWTHORNE	520.77 726.00	19.09 28.30	***** 0.0
TEN YR PROD= 1395	MC ALESTER	535.50	19.67	29.5
CASE NO. 5 (100/100/ 0)	NEWPORT HAWTHORNE	511.49 715.60	19.02 28.25	***** 0.0
TEN YR PROD= 1260	MC ALESTER	526.04	19.60	29.7
CASE NO. 6 (100/ 75/100)	NEWPORT HAWTHORNE	536.24 743.36	19.21 28.40	***** 0.0
TEN YR PROD= 1665	MC ALESTER	551.29	19.79	29.3
CASE NO. 7 (100/ 75/ 75)	NEWPORT HAWTHORNE	526.97 732.96	19.13 28.34	***** 0.0
TEN YR PROD= 1530	MC ALESTER	541.83	19.71	29.4
CASE NO. 8 (100/ 75/ 50)	NEWPORT HAWTHORNE	517.70 722.56	19.06 28.28	***** 0.0
TEN YR PROD= 1395	MC ALESTER	532.37	19.64	29.6
CASE NO. 9 (100/ 75/ 25)	NEWPORT HAWTHORNE	508.42 712.16	19.00 28.23	***** 0.0
TEN YR PROD= 1260	MC ALESTER	522.91	19.58	29.8
CASE NO. 10 (100/ 75/ 0)	NEWPORT HAWTHORNE	499.15 701.76	18.93 28.18	***** 0.0
TEN YR PROD= 1125	MC ALESTER	513.45	19.51	29.9

RDX - HMX SITE SELECTION  
TWO LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 11	NEWPORT	523.90	19.11	****
(100/ 50/100)	HAWTHORNE	729.52	28.32	0.0
TEN YR PROD= 1530	MC ALESTER	538.70	19.69	29.5
CASE NO. 12	NEWPORT	514.63	19.04	****
(100/ 50/ 75)	HAWTHORNE	719.12	28.26	0.0
TEN YR PROD= 1395	MC ALESTER	529.24	19.62	29.7
CASE NO. 13	NEWPORT	505.36	18.97	****
(100/ 50/ 50)	HAWTHORNE	708.71	28.21	0.0
TEN YR PROD= 1260	MC ALESTER	519.78	19.55	29.8
CASE NO. 14	NEWPORT	496.08	18.91	****
(100/ 50/ 25)	HAWTHORNE	698.31	28.16	0.0
TEN YR PROD= 1125	MC ALESTER	510.32	19.49	30.0
CASE NO. 15	NEWPORT	486.81	18.85	****
(100/ 50/ 0)	HAWTHORNE	687.91	28.12	0.0
TEN YR PROD= 990	MC ALESTER	500.86	19.44	30.2
CASE NO. 16	NEWPORT	511.56	19.02	****
(100/ 25/100)	HAWTHORNE	715.67	28.25	0.0
TEN YR PROD= 1395	MC ALESTER	526.11	19.60	29.7
CASE NO. 17	NEWPORT	502.29	18.95	****
(100/ 25/ 75)	HAWTHORNE	705.27	28.20	0.0
TEN YR PROD= 1260	MC ALESTER	516.65	19.53	29.9
CASE NO. 18	NEWPORT	493.01	18.89	****
(100/ 25/ 50)	HAWTHORNE	694.87	28.15	0.0
TEN YR PROD= 1125	MC ALESTER	507.19	19.47	30.1
CASE NO. 19	NEWPORT	483.74	18.84	****
(100/ 25/ 25)	HAWTHORNE	684.47	28.10	0.0
TEN YR PROD= 990	MC ALESTER	497.73	19.42	30.3
CASE NO. 20	NEWPORT	474.47	18.78	****
(100/ 25/ 0)	HAWTHORNE	674.06	28.06	0.0
TEN YR PROD= 855	MC ALESTER	488.27	19.37	30.4

ROX - HMX SITE SELECTION  
TWO LINE CAPACITY  
COST /SENSITIVITY /RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 21	NEWPORT	499.22	18.93	*****
(100/ 0/100)	HAWTHORNE	701.83	28.18	0.0
TEN YR PROD= 1260	MC ALESTER	513.52	19.51	29.9
CASE NO. 22	NEWPORT	489.94	18.87	*****
(100/ 0/ 75)	HAWTHORNE	691.43	28.13	0.0
TEN YR PROD= 1125	MC ALESTER	504.06	19.45	30.1
CASE NO. 23	NEWPORT	480.67	18.82	*****
(100/ 0/ 50)	HAWTHORNE	681.02	28.09	0.0
TEN YR PROD= 990	MC ALESTER	494.60	19.40	30.3
CASE NO. 24	NEWPORT	471.40	18.77	*****
(100/ 0/ 25)	HAWTHORNE	670.62	28.05	0.0
TEN YR PROD= 855	MC ALESTER	485.14	19.35	30.5
CASE NO. 25	NEWPORT	462.13	18.72	*****
(100/ 0/ 0)	HAWTHORNE	660.22	28.01	0.0
TEN YR PROD= 720	MC ALESTER	475.68	19.30	30.7
CASE NO. 26	NEWPORT	525.55	19.12	*****
( 75/100/100)	HAWTHORNE	731.37	28.33	0.0
TEN YR PROD= 1620	MC ALESTER	540.38	19.70	29.5
CASE NO. 27	NEWPORT	516.28	19.05	*****
( 75/100/ 75)	HAWTHORNE	720.97	28.27	0.0
TEN YR PROD= 1485	MC ALESTER	530.92	19.63	29.6
CASE NO. 28	NEWPORT	507.01	18.99	*****
( 75/100/ 50)	HAWTHORNE	710.56	28.22	0.0
TEN YR PROD= 1350	MC ALESTER	521.46	19.57	29.8
CASE NO. 29	NEWPORT	497.73	18.92	*****
( 75/100/ 25)	HAWTHORNE	700.16	28.17	0.0
TEN YR PROD= 1215	MC ALESTER	512.01	19.50	30.0
CASE NO. 30	NEWPORT	488.46	18.86	*****
( 75/100/ 0)	HAWTHORNE	689.76	28.13	0.0
TEN YR PROD= 1080	MC ALESTER	502.55	19.45	30.2



RDX - HMX SITE SELECTION  
TWO LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 31	NEWPORT	513.21	19.03	*****
( 75/ 75/100)	HAWTHORNE	717.52	28.26	0.0
TEN YR PROD= 1485	MC ALESTER	527.79	19.61	29.7
CASE NO. 32	NEWPORT	503.94	18.96	*****
( 75/ 75/ 75)	HAWTHORNE	707.12	28.20	0.0
TEN YR PROD= 1350	MC ALESTER	518.33	19.54	29.9
CASE NO. 33	NEWPORT	494.66	18.90	*****
( 75/ 75/ 50)	HAWTHORNE	696.72	28.16	0.0
TEN YR PROD= 1215	MC ALESTER	508.87	19.48	30.0
CASE NO. 34	NEWPORT	485.39	18.85	*****
( 75/ 75/ 25)	HAWTHORNE	686.32	28.11	0.0
TEN YR PROD= 1080	MC ALESTER	499.42	19.43	30.2
CASE NO. 35	NEWPORT	476.12	18.79	*****
( 75/ 75/ 0)	HAWTHORNE	675.92	28.07	0.0
TEN YR PROD= 945	MC ALESTER	489.96	19.37	30.4
CASE NO. 36	NEWPORT	500.87	18.94	*****
( 75/ 50/100)	HAWTHORNE	703.68	28.19	0.0
TEN YR PROD= 1350	MC ALESTER	515.20	19.52	29.9
CASE NO. 37	NEWPORT	491.59	18.88	*****
( 75/ 50/ 75)	HAWTHORNE	693.28	28.14	0.0
TEN YR PROD= 1215	MC ALESTER	505.74	19.46	30.1
CASE NO. 38	NEWPORT	482.32	18.83	*****
( 75/ 50/ 50)	HAWTHORNE	682.87	28.10	0.0
TEN YR PROD= 1080	MC ALESTER	496.28	19.41	30.3
CASE NO. 39	NEWPORT	473.05	18.78	*****
( 75/ 50/ 25)	HAWTHORNE	672.47	28.06	0.0
TEN YR PROD= 945	MC ALESTER	486.83	19.36	30.5
CASE NO. 40	NEWPORT	463.78	18.73	*****
( 75/ 50/ 0)	HAWTHORNE	662.07	28.02	0.0
TEN YR PROD= 810	MC ALESTER	477.37	19.31	30.7



RDX - HMX SITE SELECTION  
TWO LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 41 ( 75/ 25/100)	NEWPORT HAWTHORNE	488.52 689.83	18.86 28.13	***** 0.0
TEN YR PROD= 1215	MC ALESTER	502.61	19.45	30.2
CASE NO. 42 ( 75/ 25/ 75)	NEWPORT HAWTHORNE	479.25 679.43	18.81 28.08	***** 0.0
TEN YR PROD= 1080	MC ALESTER	493.15	19.39	30.3
CASE NO. 43 ( 75/ 25/ 50)	NEWPORT HAWTHORNE	469.98 669.03	18.76 28.04	***** 0.0
TEN YR PROD= 945	MC ALESTER	483.69	19.34	30.5
CASE NO. 44 ( 75/ 25/ 25)	NEWPORT HAWTHORNE	460.71 658.63	18.71 28.01	***** 0.0
TEN YR PROD= 810	MC ALESTER	474.24	19.30	30.7
CASE NO. 45 ( 75/ 25/ 0)	NEWPORT HAWTHORNE	451.43 648.23	18.67 27.98	***** 0.0
TEN YR PROD= 675	MC ALESTER	464.78	19.26	30.9
CASE NO. 46 ( 75/ 0/100)	NEWPORT HAWTHORNE	476.18 675.99	18.79 28.07	***** 0.0
TEN YR PROD= 1080	MC ALESTER	490.02	19.37	30.4
CASE NO. 47 ( 75/ 0/ 75)	NEWPORT HAWTHORNE	466.91 665.59	18.74 28.03	***** 0.0
TEN YR PROD= 945	MC ALESTER	480.56	19.33	30.6
CASE NO. 48 ( 75/ 0/ 50)	NEWPORT HAWTHORNE	457.64 655.18	18.70 28.00	***** 0.0
TEN YR PROD= 810	MC ALESTER	471.10	19.28	30.8
CASE NO. 49 ( 75/ 0/ 25)	NEWPORT HAWTHORNE	448.36 644.78	18.66 27.97	***** 0.0
TEN YR PROD= 675	MC ALESTER	461.65	19.24	31.0
CASE NO. 50 ( 75/ 0/ 0)	NEWPORT HAWTHORNE	439.09 634.38	18.62 27.94	***** 0.0
TEN YR PROD= 540	MC ALESTER	452.19	19.21	31.2

RDX - HMX SITE SELECTION  
TWO LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 51 ( 50/100/100)	NEWPORT HAWTHORNE	502.52 705.53	18.95 28.20	***** 0.0
TEN YR PROD= 1440	MC ALESTER	516.89	19.53	29.9
CASE NO. 52 ( 50/100/ 75)	NEWPORT HAWTHORNE	493.24 695.13	18.89 28.15	***** 0.0
TEN YR PROD= 1305	MC ALESTER	507.43	19.47	30.1
CASE NO. 53 ( 50/100/ 50)	NEWPORT HAWTHORNE	483.97 684.73	18.84 28.10	***** 0.0
TEN YR PROD= 1170	MC ALESTER	497.97	19.42	30.2
CASE NO. 54 ( 50/100/ 25)	NEWPORT HAWTHORNE	474.70 674.32	18.78 28.06	***** 0.0
TEN YR PROD= 1035	MC ALESTER	488.51	19.37	30.4
CASE NO. 55 ( 50/100/ 0)	NEWPORT HAWTHORNE	465.43 663.92	18.74 28.03	***** 0.0
TEN YR PROD= 900	MC ALESTER	479.05	19.32	30.6
CASE NO. 56 ( 50/ 75/100)	NEWPORT HAWTHORNE	490.17 691.68	18.87 28.13	***** 0.0
TEN YR PROD= 1305	MC ALESTER	504.29	19.46	30.1
CASE NO. 57 ( 50/ 75/ 75)	NEWPORT HAWTHORNE	480.90 681.28	18.82 28.09	***** 0.0
TEN YR PROD= 1170	MC ALESTER	494.84	19.40	30.3
CASE NO. 58 ( 50/ 75/ 50)	NEWPORT HAWTHORNE	471.63 670.88	18.77 28.05	***** 0.0
TEN YR PROD= 1035	MC ALESTER	485.38	19.35	30.5
CASE NO. 59 ( 50/ 75/ 25)	NEWPORT HAWTHORNE	462.36 660.48	18.72 28.02	***** 0.0
TEN YR PROD= 900	MC ALESTER	475.92	19.30	30.7
CASE NO. 60 ( 50/ 75/ 0)	NEWPORT HAWTHORNE	453.08 650.08	18.68 27.98	***** 0.0
TEN YR PROD= 765	MC ALESTER	466.46	19.26	30.9

RDX - HMX SITE SELECTION  
TWO LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 61 ( 50/ 50/100)	NEWPORT HAWTHORNE	477.83 677.84	18.80 28.08	***** 0.0
TEN YR PROD= 1170	MC ALESTER	491.71	19.38	30.4
CASE NO. 62 ( 50/ 50/ 75)	NEWPORT HAWTHORNE	468.56 667.44	18.75 28.04	***** 0.0
TEN YR PROD= 1035	MC ALESTER	482.25	19.33	30.6
CASE NO. 63 ( 50/ 50/ 50)	NEWPORT HAWTHORNE	459.29 657.03	18.71 28.00	***** 0.0
TEN YR PROD= 900	MC ALESTER	472.79	19.29	30.8
CASE NO. 64 ( 50/ 50/ 25)	NEWPORT HAWTHORNE	450.01 646.63	18.67 27.97	***** 0.0
TEN YR PROD= 765	MC ALESTER	463.33	19.25	31.0
CASE NO. 65 ( 50/ 50/ 0)	NEWPORT HAWTHORNE	440.74 636.23	18.63 27.94	***** 0.0
TEN YR PROD= 630	MC ALESTER	453.87	19.21	31.2
CASE NO. 66 ( 50/ 25/100)	NEWPORT HAWTHORNE	465.49 663.99	18.74 28.03	***** 0.0
TEN YR PROD= 1035	MC ALESTER	479.12	19.32	30.6
CASE NO. 67 ( 50/ 25/ 75)	NEWPORT HAWTHORNE	456.22 653.59	18.69 27.99	***** 0.0
TEN YR PROD= 900	MC ALESTER	469.66	19.28	30.8
CASE NO. 68 ( 50/ 25/ 50)	NEWPORT HAWTHORNE	446.94 643.19	18.65 27.96	***** 0.0
TEN YR PROD= 765	MC ALESTER	460.20	19.24	31.0
CASE NO. 69 ( 50/ 25/ 25)	NEWPORT HAWTHORNE	437.67 632.79	18.62 27.94	***** 0.0
TEN YR PROD= 630	MC ALESTER	450.74	19.20	31.3
CASE NO. 70 ( 50/ 25/ 0)	NEWPORT HAWTHORNE	428.40 622.39	18.59 27.91	***** 0.0
TEN YR PROD= 495	MC ALESTER	441.28	19.17	31.5



RDX - HMX SITE SELECTION  
TWO LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 71	NEWPORT	453.15	18.68	*****
( 50/ 0/100)	HAWTHORNE	650.15	27.98	0.0
TEN YR PROD= 900	MC ALESTER	466.53	19.26	30.9
CASE NO. 72	NEWPORT	443.87	18.64	*****
( 50/ 0/ 75)	HAWTHORNE	639.75	27.95	0.0
TEN YR PROD= 765	MC ALESTER	457.07	19.23	31.1
CASE NO. 73	NEWPORT	434.60	18.61	*****
( 50/ 0/ 50)	HAWTHORNE	629.34	27.93	0.0
TEN YR PROD= 630	MC ALESTER	447.61	19.19	31.3
CASE NO. 74	NEWPORT	425.33	18.58	*****
( 50/ 0/ 25)	HAWTHORNE	618.94	27.90	0.0
TEN YR PROD= 495	MC ALESTER	438.15	19.16	31.6
CASE NO. 75	NEWPORT	416.06	18.55	*****
( 50/ 0/ 0)	HAWTHORNE	608.54	27.89	0.0
TEN YR PROD= 360	MC ALESTER	428.69	19.14	31.8
CASE NO. 76	NEWPORT	479.48	18.81	*****
( 25/100/100)	HAWTHORNE	679.69	28.08	0.0
TEN YR PROD= 1260	MC ALESTER	493.39	19.39	30.3
CASE NO. 77	NEWPORT	470.21	18.76	*****
( 25/100/ 75)	HAWTHORNE	669.29	28.05	0.0
TEN YR PROD= 1125	MC ALESTER	483.93	19.34	30.5
CASE NO. 78	NEWPORT	460.94	18.71	*****
( 25/100/ 50)	HAWTHORNE	658.89	28.01	0.0
TEN YR PROD= 990	MC ALESTER	474.47	19.30	30.7
CASE NO. 79	NEWPORT	451.66	18.67	*****
( 25/100/ 25)	HAWTHORNE	648.48	27.98	0.0
TEN YR PROD= 855	MC ALESTER	465.01	19.26	30.9
CASE NO. 80	NEWPORT	442.39	18.64	*****
( 25/100/ 0)	HAWTHORNE	638.08	27.95	0.0
TEN YR PROD= 720	MC ALESTER	455.55	19.22	31.1

RDX - HMX SITE SELECTION  
TWO LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 81	NEWPORT	467.14	18.75	*****
( 25/ 75/100)	HAWTHORNE	665.84	28.03	0.0
TEN YR PROD= 1125	MC ALESTER	480.80	19.33	30.6
CASE NO. 82	NEWPORT	457.87	18.70	*****
( 25/ 75/ 75)	HAWTHORNE	655.44	28.00	0.0
TEN YR PROD= 990	MC ALESTER	471.34	19.28	30.8
CASE NO. 83	NEWPORT	448.59	18.66	*****
( 25/ 75/ 50)	HAWTHORNE	645.04	27.97	0.0
TEN YR PROD= 855	MC ALESTER	461.88	19.24	31.0
CASE NO. 84	NEWPORT	439.32	18.62	*****
( 25/ 75/ 25)	HAWTHORNE	634.64	27.94	0.0
TEN YR PROD= 720	MC ALESTER	452.42	19.21	31.2
CASE NO. 85	NEWPORT	430.05	18.59	*****
( 25/ 75/ 0)	HAWTHORNE	624.24	27.92	0.0
TEN YR PROD= 585	MC ALESTER	442.96	19.18	31.4
CASE NO. 86	NEWPORT	454.80	18.69	*****
( 25/ 50/100)	HAWTHORNE	652.00	27.99	0.0
TEN YR PROD= 990	MC ALESTER	468.21	19.27	30.9
CASE NO. 87	NEWPORT	445.52	18.65	*****
( 25/ 50/ 75)	HAWTHORNE	641.60	27.96	0.0
TEN YR PROD= 855	MC ALESTER	458.75	19.23	31.1
CASE NO. 88	NEWPORT	436.25	18.61	*****
( 25/ 50/ 50)	HAWTHORNE	631.20	27.93	0.0
TEN YR PROD= 720	MC ALESTER	449.29	19.20	31.3
CASE NO. 89	NEWPORT	426.98	18.58	*****
( 25/ 50/ 25)	HAWTHORNE	620.79	27.91	0.0
TEN YR PROD= 585	MC ALESTER	439.83	19.17	31.5
CASE NO. 90	NEWPORT	417.71	18.56	*****
( 25/ 50/ 0)	HAWTHORNE	610.39	27.89	0.0
TEN YR PROD= 450	MC ALESTER	430.37	19.14	31.7



RDX - HMX SITE SELECTION  
TWO LINE CAPACITY  
COSI / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 91	NEWPORT	442.46	18.64	*****
( 25/ 25/100)	HAWTHORNE	638.15	27.95	0.0
TEN YR PROD= 855	MC ALESTER	455.62	19.22	31.1
CASE NO. 92	NEWPORT	433.18	18.60	*****
( 25/ 25/ 75)	HAWTHORNE	627.75	27.92	0.0
TEN YR PROD= 720	MC ALESTER	446.16	19.19	31.4
CASE NO. 93	NEWPORT	423.91	18.58	*****
( 25/ 25/ 50)	HAWTHORNE	617.35	27.90	0.0
TEN YR PROD= 585	MC ALESTER	436.70	19.16	31.6
CASE NO. 94	NEWPORT	414.64	18.55	*****
( 25/ 25/ 25)	HAWTHORNE	606.95	27.88	0.0
TEN YR PROD= 450	MC ALESTER	427.24	19.14	31.8
CASE NO. 95	NEWPORT	405.36	18.53	*****
( 25/ 25/ 0)	HAWTHORNE	596.55	27.87	0.0
TEN YR PROD= 315	MC ALESTER	417.78	19.12	32.0
CASE NO. 96	NEWPORT	430.11	18.59	*****
( 25/ 0/100)	HAWTHORNE	624.31	27.92	0.0
TEN YR PROD= 720	MC ALESTER	443.03	19.18	31.4
CASE NO. 97	NEWPORT	420.84	18.57	*****
( 25/ 0/ 75)	HAWTHORNE	613.91	27.90	0.0
TEN YR PROD= 585	MC ALESTER	433.57	19.15	31.7
CASE NO. 98	NEWPORT	411.57	18.54	*****
( 25/ 0/ 50)	HAWTHORNE	603.50	27.88	0.0
TEN YR PROD= 450	MC ALESTER	424.11	19.13	31.9
CASE NO. 99	NEWPORT	402.29	18.53	*****
( 25/ 0/ 25)	HAWTHORNE	593.10	27.86	0.0
TEN YR PROD= 315	MC ALESTER	414.65	19.11	32.1
CASE NO. 100	NEWPORT	393.02	18.51	*****
( 25/ 0/ 0)	HAWTHORNE	582.70	27.85	0.0
TEN YR PROD= 180	MC ALESTER	405.19	19.10	32.4

RDX - HMX SITE SELECTION  
TWO LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 101	NEWPORT	456.45	18.69	*****
( 0/100/100)	HAWTHORNE	653.85	27.99	0.0
TEN YR PROD= 1080	MC ALESTER	469.89	19.28	30.8
CASE NO. 102	NEWPORT	447.17	18.65	*****
( 0/100/ 75)	HAWTHORNE	643.45	27.95	0.0
TEN YR PROD= 945	MC ALESTER	460.43	19.24	31.0
CASE NO. 103	NEWPORT	437.90	18.62	*****
( 0/100/ 50)	HAWTHORNE	633.05	27.94	0.0
TEN YR PROD= 810	MC ALESTER	450.97	19.20	31.3
CASE NO. 104	NEWPORT	428.63	18.59	*****
( 0/100/ 25)	HAWTHORNE	622.64	27.91	0.0
TEN YR PROD= 675	MC ALESTER	441.51	19.17	31.5
CASE NO. 105	NEWPORT	419.36	18.56	*****
( 0/100/ 0)	HAWTHORNE	612.24	27.89	0.0
TEN YR PROD= 540	MC ALESTER	432.06	19.15	31.7
CASE NO. 106	NEWPORT	444.10	18.64	*****
( 0/ 75/100)	HAWTHORNE	640.00	27.95	0.0
TEN YR PROD= 945	MC ALESTER	457.30	19.23	31.1
CASE NO. 107	NEWPORT	434.83	18.61	*****
( 0/ 75/ 75)	HAWTHORNE	629.60	27.93	0.0
TEN YR PROD= 810	MC ALESTER	447.84	19.19	31.3
CASE NO. 108	NEWPORT	425.56	18.58	*****
( 0/ 75/ 50)	HAWTHORNE	619.20	27.91	0.0
TEN YR PROD= 675	MC ALESTER	438.38	19.16	31.5
CASE NO. 109	NEWPORT	416.29	18.56	*****
( 0/ 75/ 25)	HAWTHORNE	608.80	27.89	0.0
TEN YR PROD= 540	MC ALESTER	428.92	19.14	31.8
CASE NO. 110	NEWPORT	407.01	18.54	*****
( 0/ 75/ 0)	HAWTHORNE	598.40	27.87	0.0
TEN YR PROD= 405	MC ALESTER	419.47	19.12	32.0

RDX - HMX SITE SELECTION  
TWO LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 111	NEWPORT	431.76	18.60	*****
( 0/ 50/100)	HAWTHORNE	626.16	27.92	0.0
TEN YR PROD= 810	MC ALESTER	444.71	19.18	31.4
CASE NO. 112	NEWPORT	422.49	18.57	*****
( 0/ 50/ 75)	HAWTHORNE	615.76	27.90	0.0
TEN YR PROD= 675	MC ALESTER	435.25	19.16	31.6
CASE NO. 113	NEWPORT	413.22	18.55	*****
( 0/ 50/ 50)	HAWTHORNE	605.36	27.88	0.0
TEN YR PROD= 540	MC ALESTER	425.79	19.13	31.8
CASE NO. 114	NEWPORT	403.94	18.53	*****
( 0/ 50/ 25)	HAWTHORNE	594.95	27.87	0.0
TEN YR PROD= 405	MC ALESTER	416.33	19.11	32.1
CASE NO. 115	NEWPORT	394.67	18.52	*****
( 0/ 50/ 0)	HAWTHORNE	584.55	27.86	0.0
TEN YR PROD= 270	MC ALESTER	406.88	19.10	32.3
CASE NO. 116	NEWPORT	419.42	18.56	*****
( 0/ 25/100)	HAWTHORNE	612.31	27.89	0.0
TEN YR PROD= 675	MC ALESTER	432.12	19.15	31.7
CASE NO. 117	NEWPORT	410.15	18.54	*****
( 0/ 25/ 75)	HAWTHORNE	601.91	27.88	0.0
TEN YR PROD= 540	MC ALESTER	422.66	19.13	31.9
CASE NO. 118	NEWPORT	400.87	18.52	*****
( 0/ 25/ 50)	HAWTHORNE	591.51	27.86	0.0
TEN YR PROD= 405	MC ALESTER	413.20	19.11	32.2
CASE NO. 119	NEWPORT	391.60	18.51	*****
( 0/ 25/ 25)	HAWTHORNE	581.11	27.85	0.0
TEN YR PROD= 270	MC ALESTER	403.74	19.10	32.4
CASE NO. 120	NEWPORT	382.33	18.50	*****
( 0/ 25/ 0)	HAWTHORNE	570.71	27.85	0.0
TEN YR PROD= 135	MC ALESTER	394.29	19.09	32.6

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RDX - HMX SITE SELECTION  
 TWO LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 121	NEWPORT	407.08	18.54	*****
( 0/ 0/100)	HAWTHORNE	598.47	27.87	0.0
TEN YR PROD= 540	MC ALESTER	419.53	19.12	32.0
CASE NO. 122	NEWPORT	397.81	18.52	*****
( 0/ 0/ 75)	HAWTHORNE	588.07	27.86	0.0
TEN YR PROD= 405	MC ALESTER	410.07	19.10	32.2
CASE NO. 123	NEWPORT	388.53	18.51	*****
( 0/ 0/ 50)	HAWTHORNE	577.67	27.85	0.0
TEN YR PROD= 270	MC ALESTER	400.61	19.09	32.5
CASE NO. 124	NEWPORT	379.26	18.50	*****
( 0/ 0/ 25)	HAWTHORNE	567.26	27.84	0.0
TEN YR PROD= 135	MC ALESTER	391.15	19.09	32.7
CASE NO. 125	NEWPORT	369.99	18.50	*****
( 0/ 0/ 0)	HAWTHORNE	556.86	27.84	0.0
TEN YR PROD= 0	MC ALESTER	381.70	19.08	33.0

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RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= -5% UTL= -5%, LBR= -5%, TRANS= -5%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 1	NEWPORT	899.54	29.94	*****
(100/100/100)	HAWTHORNE	1244.79	43.87	0.0
TEN YR PROD= 3600	MC ALESTER	942.96	31.03	15.7
CASE NO. 2	NEWPORT	881.92	29.75	*****
(100/100/ 75)	HAWTHORNE	1223.99	43.71	0.0
TEN YR PROD= 3330	MC ALESTER	924.04	30.83	16.3
CASE NO. 3	NEWPORT	864.30	29.57	*****
(100/100/ 50)	HAWTHORNE	1203.18	43.55	0.0
TEN YR PROD= 3060	MC ALESTER	905.12	30.63	16.9
CASE NO. 4	NEWPORT	846.68	29.40	*****
(100/100/ 25)	HAWTHORNE	1182.37	43.40	0.0
TEN YR PROD= 2790	MC ALESTER	886.20	30.44	17.5
CASE NO. 5	NEWPORT	829.06	29.23	*****
(100/100/ 0)	HAWTHORNE	1161.57	43.26	0.0
TEN YR PROD= 2520	MC ALESTER	867.28	30.27	18.2
CASE NO. 6	NEWPORT	816.09	29.69	*****
(100/ 75/100)	HAWTHORNE	1217.10	43.65	0.0
TEN YR PROD= 3330	MC ALESTER	917.78	30.76	16.5
CASE NO. 7	NEWPORT	858.47	29.51	*****
(100/ 75/ 75)	HAWTHORNE	1196.29	43.50	0.0
TEN YR PROD= 3060	MC ALESTER	898.86	30.57	17.1
CASE NO. 8	NEWPORT	840.85	29.34	*****
(100/ 75/ 50)	HAWTHORNE	1175.49	43.35	0.0
TEN YR PROD= 2790	MC ALESTER	879.94	30.38	17.7
CASE NO. 9	NEWPORT	823.23	29.18	*****
(100/ 75/ 25)	HAWTHORNE	1154.68	43.21	0.0
TEN YR PROD= 2520	MC ALESTER	861.02	30.21	18.4
CASE NO. 10	NEWPORT	805.61	29.03	*****
(100/ 75/ 0)	HAWTHORNE	1133.87	43.08	0.0
TEN YR PROD= 2250	MC ALESTER	842.10	30.05	19.1

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= -5% UTL= -5%, LBR= -5%, TRANS= -5%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 11	NEWPORT	852.64	29.45	*****
(100/ 50/100)	HAWTHORNE	1189.41	43.45	0.0
TEN YR PROD= 3060	MC ALESTER	892.59	30.50	17.3
CASE NO. 12	NEWPORT	835.02	29.29	*****
(100/ 50/ 75)	HAWTHORNE	1168.60	43.31	0.0
TEN YR PROD= 2790	MC ALESTER	873.67	30.32	18.0
CASE NO. 13	NEWPORT	817.40	29.13	*****
(100/ 50/ 50)	HAWTHORNE	1147.79	43.17	0.0
TEN YR PROD= 2520	MC ALESTER	854.75	30.15	18.6
CASE NO. 14	NEWPORT	799.77	28.99	*****
(100/ 50/ 25)	HAWTHORNE	1126.99	43.04	0.0
TEN YR PROD= 2250	MC ALESTER	835.83	30.00	19.4
CASE NO. 15	NEWPORT	782.15	28.85	*****
(100/ 50/ 0)	HAWTHORNE	1106.18	42.93	0.0
TEN YR PROD= 1980	MC ALESTER	816.91	29.85	20.1
CASE NO. 16	NEWPORT	829.18	29.23	*****
(100/ 25/100)	HAWTHORNE	1161.71	43.26	0.0
TEN YR PROD= 2790	MC ALESTER	867.41	30.27	18.2
CASE NO. 17	NEWPORT	811.56	29.08	*****
(100/ 25/ 75)	HAWTHORNE	1140.91	43.13	0.0
TEN YR PROD= 2520	MC ALESTER	848.49	30.10	18.9
CASE NO. 18	NEWPORT	793.94	28.94	*****
(100/ 25/ 50)	HAWTHORNE	1120.10	43.00	0.0
TEN YR PROD= 2250	MC ALESTER	829.57	29.94	19.6
CASE NO. 19	NEWPORT	776.32	28.81	*****
(100/ 25/ 25)	HAWTHORNE	1099.29	42.89	0.0
TEN YR PROD= 1980	MC ALESTER	810.65	29.80	20.4
CASE NO. 20	NEWPORT	758.70	28.68	*****
(100/ 25/ 0)	HAWTHORNE	1078.49	42.78	0.0
TEN YR PROD= 1710	MC ALESTER	791.73	29.66	21.2

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= -5% UTL= -5%, LBR= -5%, TRANS= -5%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 21	NEWPORT	805.73	29.03	*****
(100/ 0/100)	HAWTHORNE	1134.02	43.09	0.0
TEN YR PROD= 2520	MC ALESTER	842.23	30.05	19.1
CASE NO. 22	NEWPORT	788.11	28.89	*****
(100/ 0/ 75)	HAWTHORNE	1113.21	42.96	0.0
TEN YR PROD= 2250	MC ALESTER	823.31	29.90	19.9
CASE NO. 23	NEWPORT	770.49	28.76	*****
(100/ 0/ 50)	HAWTHORNE	1092.41	42.85	0.0
TEN YR PROD= 1980	MC ALESTER	804.39	29.75	20.6
CASE NO. 24	NEWPORT	752.87	28.64	*****
(100/ 0/ 25)	HAWTHORNE	1071.60	42.75	0.0
TEN YR PROD= 1710	MC ALESTER	785.47	29.62	21.4
CASE NO. 25	NEWPORT	735.25	28.53	*****
(100/ 0/ 0)	HAWTHORNE	1050.79	42.65	0.0
TEN YR PROD= 1440	MC ALESTER	766.55	29.50	22.3
CASE NO. 26	NEWPORT	855.77	29.48	*****
( 75/100/100)	HAWTHORNE	1193.11	43.48	0.0
TEN YR PROD= 3240	MC ALESTER	895.96	30.54	17.2
CASE NO. 27	NEWPORT	838.15	29.32	*****
( 75/100/ 75)	HAWTHORNE	1172.30	43.33	0.0
TEN YR PROD= 2970	MC ALESTER	877.04	30.36	17.8
CASE NO. 28	NEWPORT	820.53	29.16	*****
( 75/100/ 50)	HAWTHORNE	1151.49	43.19	0.0
TEN YR PROD= 2700	MC ALESTER	858.12	30.18	18.5
CASE NO. 29	NEWPORT	802.91	29.01	*****
( 75/100/ 25)	HAWTHORNE	1130.69	43.07	0.0
TEN YR PROD= 2430	MC ALESTER	839.20	30.02	19.2
CASE NO. 30	NEWPORT	785.29	28.87	*****
( 75/100/ 0)	HAWTHORNE	1109.88	42.95	0.0
TEN YR PROD= 2160	MC ALESTER	820.28	29.87	20.0

RDX - HMX SITE SELECTION  
FOUR LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= -5% UTL= -5%, LBR= -5%, TRANS= -5%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 31	NEWPORT	832.32	29.26	*****
( 75/ 75/100)	HAWTHORNE	1165.41	43.28	0.0
TEN YR PROD= 2970	MC ALESTER	870.78	30.30	18.1
CASE NO. 32	NEWPORT	814.70	29.11	*****
( 75/ 75/ 75)	HAWTHORNE	1144.61	43.15	0.0
TEN YR PROD= 2700	MC ALESTER	851.86	30.13	18.8
CASE NO. 33	NEWPORT	797.08	28.96	*****
( 75/ 75/ 50)	HAWTHORNE	1123.80	43.02	0.0
TEN YR PROD= 2430	MC ALESTER	832.94	29.97	19.5
CASE NO. 34	NEWPORT	774.46	28.83	*****
( 75/ 75/ 25)	HAWTHORNE	1102.99	42.91	0.0
TEN YR PROD= 2160	MC ALESTER	814.02	29.82	20.2
CASE NO. 35	NEWPORT	761.84	28.70	*****
( 75/ 75/ 0)	HAWTHORNE	1082.19	42.80	0.0
TEN YR PROD= 1890	MC ALESTER	795.10	29.69	21.0
CASE NO. 36	NEWPORT	808.87	29.06	*****
( 75/ 50/100)	HAWTHORNE	1137.72	43.11	0.0
TEN YR PROD= 2700	MC ALESTER	845.59	30.08	19.0
CASE NO. 37	NEWPORT	791.24	28.92	*****
( 75/ 50/ 75)	HAWTHORNE	1116.91	42.99	0.0
TEN YR PROD= 2430	MC ALESTER	826.67	29.92	19.7
CASE NO. 38	NEWPORT	773.62	28.79	*****
( 75/ 50/ 50)	HAWTHORNE	1096.11	42.87	0.0
TEN YR PROD= 2160	MC ALESTER	807.75	29.78	20.5
CASE NO. 39	NEWPORT	756.00	28.66	*****
( 75/ 50/ 25)	HAWTHORNE	1075.30	42.77	0.0
TEN YR PROD= 1890	MC ALESTER	788.83	29.65	21.3
CASE NO. 40	NEWPORT	738.38	28.55	*****
( 75/ 50/ 0)	HAWTHORNE	1054.49	42.67	0.0
TEN YR PROD= 1620	MC ALESTER	769.91	29.52	22.1



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= -5% UTL= -5%, LBR= -5%, TRANS= -5%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 41	NEWPORT	785.41	28.87	*****
( 75/ 25/100)	HAWTHORNE	1110.03	42.95	0.0
TEN YR PROD= 2430	MC ALESTER	820.41	29.87	20.0
CASE NO. 42	NEWPORT	767.79	28.74	*****
( 75/ 25/ 75)	HAWTHORNE	1089.22	42.84	0.0
TEN YR PROD= 2160	MC ALESTER	801.49	29.73	20.8
CASE NO. 43	NEWPORT	750.17	28.63	*****
( 75/ 25/ 50)	HAWTHORNE	1068.41	42.73	0.0
TEN YR PROD= 1890	MC ALESTER	782.57	29.60	21.6
CASE NO. 44	NEWPORT	732.55	28.52	*****
( 75/ 25/ 25)	HAWTHORNE	1047.61	42.64	0.0
TEN YR PROD= 1620	MC ALESTER	763.65	29.48	22.4
CASE NO. 45	NEWPORT	714.93	28.42	*****
( 75/ 25/ 0)	HAWTHORNE	1026.80	42.56	0.0
TEN YR PROD= 1350	MC ALESTER	744.73	29.38	23.3
CASE NO. 46	NEWPORT	761.96	28.70	*****
( 75/ 0/100)	HAWTHORNE	1082.33	42.80	0.0
TEN YR PROD= 2160	MC ALESTER	795.23	29.69	21.0
CASE NO. 47	NEWPORT	744.34	28.59	*****
( 75/ 0/ 75)	HAWTHORNE	1061.53	42.70	0.0
TEN YR PROD= 1890	MC ALESTER	776.31	29.56	21.8
CASE NO. 48	NEWPORT	726.72	28.48	*****
( 75/ 0/ 50)	HAWTHORNE	1040.72	42.61	0.0
TEN YR PROD= 1620	MC ALESTER	757.39	29.45	22.7
CASE NO. 49	NEWPORT	709.10	28.39	*****
( 75/ 0/ 25)	HAWTHORNE	1019.91	42.53	0.0
TEN YR PROD= 1350	MC ALESTER	738.47	29.34	23.6
CASE NO. 50	NEWPORT	691.48	28.31	*****
( 75/ 0/ 0)	HAWTHORNE	999.11	42.46	0.0
TEN YR PROD= 1080	MC ALESTER	719.55	29.25	24.5



RDX - HMX SITE SELECTION  
FOUR LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= -5% UTL= -5%, LBR= -5%, TRANS= -5%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 51	NEWPORT	812.00	29.09	*****
( 50/100/100)	HAWTHORNE	1141.42	43.13	0.0
TEN YR PROD= 2880	MC ALESTER	848.96	30.10	18.9
CASE NO. 52	NEWPORT	794.38	28.94	*****
( 50/100/ 75)	HAWTHORNE	1120.62	43.01	0.0
TEN YR PROD= 2610	MC ALESTER	830.04	29.95	19.6
CASE NO. 53	NEWPORT	776.76	28.81	*****
( 50/100/ 50)	HAWTHORNE	1099.81	42.89	0.0
TEN YR PROD= 2340	MC ALESTER	811.12	29.80	20.4
CASE NO. 54	NEWPORT	759.14	28.69	*****
( 50/100/ 25)	HAWTHORNE	1079.00	42.78	0.0
TEN YR PROD= 2070	MC ALESTER	792.20	29.67	21.2
CASE NO. 55	NEWPORT	741.52	28.57	*****
( 50/100/ 0)	HAWTHORNE	1058.20	42.69	0.0
TEN YR PROD= 1800	MC ALESTER	773.28	29.54	22.0
CASE NO. 56	NEWPORT	788.55	28.90	*****
( 50/ 75/100)	HAWTHORNE	1113.73	42.97	0.0
TEN YR PROD= 2610	MC ALESTER	823.78	29.90	19.8
CASE NO. 57	NEWPORT	770.93	28.77	*****
( 50/ 75/ 75)	HAWTHORNE	1092.92	42.85	0.0
TEN YR PROD= 2340	MC ALESTER	804.86	29.76	20.6
CASE NO. 58	NEWPORT	753.31	28.65	*****
( 50/ 75/ 50)	HAWTHORNE	1072.12	42.75	0.0
TEN YR PROD= 2070	MC ALESTER	785.94	29.63	21.4
CASE NO. 59	NEWPORT	735.69	28.54	*****
( 50/ 75/ 25)	HAWTHORNE	1051.31	42.66	0.0
TEN YR PROD= 1800	MC ALESTER	767.02	29.51	22.3
CASE NO. 60	NEWPORT	718.06	28.44	*****
( 50/ 75/ 0)	HAWTHORNE	1030.50	42.57	0.0
TEN YR PROD= 1530	MC ALESTER	748.10	29.40	23.1

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= -5% UTL= -5%, LBR= -5%, TRANS= -5%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 61	NEWPORT	765.09	28.73	*****
( 50/ 50/100)	HAWTHORNE	1086.03	42.82	0.0
TEN YR PROD= 2340	MC ALESTER	798.60	29.71	20.9
CASE NO. 62	NEWPORT	741.47	28.61	*****
( 50/ 50/ 75)	HAWTHORNE	1065.23	42.72	0.0
TEN YR PROD= 2070	MC ALESTER	779.67	29.58	21.7
CASE NO. 63	NEWPORT	729.85	28.50	*****
( 50/ 50/ 50)	HAWTHORNE	1044.42	42.63	0.0
TEN YR PROD= 1800	MC ALESTER	760.75	29.47	22.5
CASE NO. 64	NEWPORT	712.23	28.41	*****
( 50/ 50/ 25)	HAWTHORNE	1023.61	42.54	0.0
TEN YR PROD= 1530	MC ALESTER	741.83	29.36	23.4
CASE NO. 65	NEWPORT	694.61	28.32	*****
( 50/ 50/ 0)	HAWTHORNE	1002.81	42.47	0.0
TEN YR PROD= 1260	MC ALESTER	722.91	29.27	24.4
CASE NO. 66	NEWPORT	741.64	28.57	*****
( 50/ 25/100)	HAWTHORNE	1058.34	42.69	0.0
TEN YR PROD= 2070	MC ALESTER	773.41	29.54	22.0
CASE NO. 67	NEWPORT	724.02	28.47	*****
( 50/ 25/ 75)	HAWTHORNE	1037.53	42.60	0.0
TEN YR PROD= 1800	MC ALESTER	754.49	29.43	22.8
CASE NO. 68	NEWPORT	706.40	28.38	*****
( 50/ 25/ 50)	HAWTHORNE	1016.73	42.52	0.0
TEN YR PROD= 1530	MC ALESTER	735.57	29.33	23.7
CASE NO. 69	NEWPORT	688.78	28.29	*****
( 50/ 25/ 25)	HAWTHORNE	995.92	42.45	0.0
TEN YR PROD= 1260	MC ALESTER	716.65	29.24	24.7
CASE NO. 70	NEWPORT	671.16	28.22	*****
( 50/ 25/ 0)	HAWTHORNE	975.11	42.38	0.0
TEN YR PROD= 990	MC ALESTER	697.73	29.16	25.6

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RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= -5% UTL= -5%, LBR= -5%, TRANS= -5%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 71	NEWPORT	718.19	28.44	*****
( 50/ 0/100)	HAWTHORNE	1030.65	42.57	0.0
TEN YR PROD= 1800	MC ALESTER	748.23	29.40	23.1
CASE NO. 72	NEWPORT	700.57	28.35	*****
( 50/ 0/ 75)	HAWTHORNE	1009.84	42.49	0.0
TEN YR PROD= 1530	MC ALESTER	729.31	29.30	24.0
CASE NO. 73	NEWPORT	682.95	28.27	*****
( 50/ 0/ 50)	HAWTHORNE	989.03	42.42	0.0
TEN YR PROD= 1260	MC ALESTER	710.39	29.21	25.0
CASE NO. 74	NEWPORT	665.33	28.20	*****
( 50/ 0/ 25)	HAWTHORNE	968.23	42.37	0.0
TEN YR PROD= 990	MC ALESTER	691.47	29.14	26.0
CASE NO. 75	NEWPORT	647.70	28.14	*****
( 50/ 0/ 0)	HAWTHORNE	947.42	42.32	0.0
TEN YR PROD= 720	MC ALESTER	672.55	29.07	27.0
CASE NO. 76	NEWPORT	768.23	28.75	*****
( 25/100/100)	HAWTHORNE	1089.74	42.84	0.0
TEN YR PROD= 2520	MC ALESTER	801.96	29.74	20.7
CASE NO. 77	NEWPORT	750.61	28.63	*****
( 25/100/ 75)	HAWTHORNE	1068.93	42.74	0.0
TEN YR PROD= 2250	MC ALESTER	783.04	29.61	21.5
CASE NO. 78	NEWPORT	732.99	28.52	*****
( 25/100/ 50)	HAWTHORNE	1048.12	42.64	0.0
TEN YR PROD= 1980	MC ALESTER	764.12	29.49	22.4
CASE NO. 79	NEWPORT	715.37	28.42	*****
( 25/100/ 25)	HAWTHORNE	1027.32	42.56	0.0
TEN YR PROD= 1710	MC ALESTER	745.20	29.38	23.3
CASE NO. 80	NEWPORT	697.75	28.33	*****
( 25/100/ 0)	HAWTHORNE	1006.51	42.48	0.0
TEN YR PROD= 1440	MC ALESTER	726.28	29.28	24.2



ROX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= -5% UTLS= -5%, LBR= -5%, TRANS= -5%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 81	NEWPORT	744.78	28.59	*****
( 25/ 75/100)	HAWTHORNE	1062.04	42.70	0.0
TEN YR PROD= 2250	MC ALESTER	776.78	29.57	21.8
CASE NO. 82	NEWPORT	727.16	28.49	*****
( 25/ 75/ 75)	HAWTHORNE	1041.24	42.61	0.0
TEN YR PROD= 1980	MC ALESTER	757.86	29.45	22.7
CASE NO. 83	NEWPORT	709.53	28.39	*****
( 25/ 75/ 50)	HAWTHORNE	1020.43	42.53	0.0
TEN YR PROD= 1710	MC ALESTER	738.94	29.35	23.6
CASE NO. 84	NEWPORT	691.91	28.31	*****
( 25/ 75/ 25)	HAWTHORNE	999.62	42.46	0.0
TEN YR PROD= 1440	MC ALESTER	720.02	29.25	24.5
CASE NO. 85	NEWPORT	674.29	28.23	*****
( 25/ 75/ 0)	HAWTHORNE	978.82	42.39	0.0
TEN YR PROD= 1170	MC ALESTER	701.10	29.17	25.5
CASE NO. 86	NEWPORT	721.32	28.45	*****
( 25/ 50/100)	HAWTHORNE	1034.35	42.58	0.0
TEN YR PROD= 1980	MC ALESTER	751.60	29.42	23.0
CASE NO. 87	NEWPORT	703.70	28.36	*****
( 25/ 50/ 75)	HAWTHORNE	1013.54	42.51	0.0
TEN YR PROD= 1710	MC ALESTER	732.68	29.32	23.9
CASE NO. 88	NEWPORT	686.08	28.28	*****
( 25/ 50/ 50)	HAWTHORNE	992.74	42.44	0.0
TEN YR PROD= 1440	MC ALESTER	713.75	29.23	24.8
CASE NO. 89	NEWPORT	668.46	28.21	*****
( 25/ 50/ 25)	HAWTHORNE	971.93	42.38	0.0
TEN YR PROD= 1170	MC ALESTER	694.83	29.15	25.8
CASE NO. 90	NEWPORT	650.84	28.15	*****
( 25/ 50/ 0)	HAWTHORNE	951.12	42.32	0.0
TEN YR PROD= 900	MC ALESTER	675.91	29.08	26.8

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= -5% UTL= -5%, LBR= -5%, TRANS= -5%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 91	NEWPORT	697.87	28.33	****
( 25/ 25/ 100)	HAWTHORNE	1006.66	42.48	0.0
TEN YR PROD= 1710	MC ALESTER	726.41	29.28	24.2
CASE NO. 92	NEWPORT	680.25	28.26	****
( 25/ 25/ 75)	HAWTHORNE	985.85	42.42	0.0
TEN YR PROD= 1440	MC ALESTER	707.49	29.20	25.1
CASE NO. 93	NEWPORT	662.63	28.19	****
( 25/ 25/ 50)	HAWTHORNE	965.04	42.36	0.0
TEN YR PROD= 1170	MC ALESTER	688.57	29.13	26.1
CASE NO. 94	NEWPORT	645.01	28.13	****
( 25/ 25/ 25)	HAWTHORNE	944.24	42.31	0.0
TEN YR PROD= 900	MC ALESTER	669.65	29.06	27.1
CASE NO. 95	NEWPORT	627.39	28.09	****
( 25/ 25/ 0)	HAWTHORNE	923.43	42.27	0.0
TEN YR PROD= 630	MC ALESTER	650.73	29.01	28.2
CASE NO. 96	NEWPORT	674.42	28.23	****
( 25/ 0/ 100)	HAWTHORNE	978.96	42.40	0.0
TEN YR PROD= 1440	MC ALESTER	701.23	29.17	25.4
CASE NO. 97	NEWPORT	656.80	28.17	****
( 25/ 0/ 75)	HAWTHORNE	958.16	42.34	0.0
TEN YR PROD= 1170	MC ALESTER	682.31	29.10	26.4
CASE NO. 98	NEWPORT	639.17	28.12	****
( 25/ 0/ 50)	HAWTHORNE	937.35	42.29	0.0
TEN YR PROD= 900	MC ALESTER	663.39	29.05	27.5
CASE NO. 99	NEWPORT	621.55	28.07	****
( 25/ 0/ 25)	HAWTHORNE	916.54	42.26	0.0
TEN YR PROD= 630	MC ALESTER	644.47	29.00	28.5
CASE NO. 100	NEWPORT	603.93	28.04	****
( 25/ 0/ 0)	HAWTHORNE	895.74	42.23	0.0
TEN YR PROD= 360	MC ALESTER	625.55	28.96	29.6



RDX - HMX SITE SELECTION  
FOUR LINE CAPACITY  
COST /SENSITIVITY /RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTLs= -5% UTLS= -5%, LBR= -5%, TRANS= -5%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 101	NEWPORT	724.46	28.47	*****
( 0/100/100)	HAWTHORNE	1038.05	42.60	0.0
TEN YR PROD= 2160	MC ALESTER	754.96	29.43	22.8
CASE NO. 102	NEWPORT	706.84	28.38	*****
( 0/100/ 75)	HAWTHORNE	1017.24	42.52	0.0
TEN YR PROD= 1890	MC ALESTER	736.04	29.33	23.7
CASE NO. 103	NEWPORT	689.22	28.29	*****
( 0/100/ 50)	HAWTHORNE	996.44	42.45	0.0
TEN YR PROD= 1620	MC ALESTER	717.12	29.24	24.6
CASE NO. 104	NEWPORT	671.60	28.22	*****
( 0/100/ 25)	HAWTHORNE	975.63	42.39	0.0
TEN YR PROD= 1350	MC ALESTER	698.20	29.16	25.6
CASE NO. 105	NEWPORT	653.98	28.16	*****
( 0/100/ 0)	HAWTHORNE	954.83	42.33	0.0
TEN YR PROD= 1080	MC ALESTER	679.28	29.09	26.6
CASE NO. 106	NEWPORT	701.00	28.35	*****
( 0/ 75/100)	HAWTHORNE	1010.36	42.49	0.0
TEN YR PROD= 1890	MC ALESTER	729.78	29.30	24.0
CASE NO. 107	NEWPORT	683.38	28.27	*****
( 0/ 75/ 75)	HAWTHORNE	989.55	42.43	0.0
TEN YR PROD= 1620	MC ALESTER	710.86	29.21	25.0
CASE NO. 108	NEWPORT	665.76	28.20	*****
( 0/ 75/ 50)	HAWTHORNE	968.74	42.37	0.0
TEN YR PROD= 1350	MC ALESTER	691.94	29.14	25.9
CASE NO. 109	NEWPORT	648.14	28.14	*****
( 0/ 75/ 25)	HAWTHORNE	947.94	42.32	0.0
TEN YR PROD= 1080	MC ALESTER	673.02	29.07	26.9
CASE NO. 110	NEWPORT	630.52	28.09	*****
( 0/ 75/ 0)	HAWTHORNE	927.13	42.28	0.0
TEN YR PROD= 810	MC ALESTER	654.10	29.02	28.0

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= -5% UTL= -5%, LBR= -5%, TRANS= -5%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 111	NEWPORT	677.55	28.25	*****
( 0/ 50/100)	HAWTHORNE	982.66	42.41	0.0
TEN YR PROD= 1620	MC ALESTER	704.60	29.19	25.3
CASE NO. 112	NEWPORT	659.93	28.18	*****
( 0/ 50/ 75)	HAWTHORNE	961.86	42.35	0.0
TEN YR PROD= 1350	MC ALESTER	685.68	29.12	26.3
CASE NO. 113	NEWPORT	642.31	28.12	*****
( 0/ 50/ 50)	HAWTHORNE	941.05	42.30	0.0
TEN YR PROD= 1080	MC ALESTER	666.75	29.05	27.3
CASE NO. 114	NEWPORT	624.69	28.08	*****
( 0/ 50/ 25)	HAWTHORNE	920.24	42.26	0.0
TEN YR PROD= 810	MC ALESTER	647.83	29.01	28.3
CASE NO. 115	NEWPORT	607.07	28.05	*****
( 0/ 50/ 0)	HAWTHORNE	899.44	42.24	0.0
TEN YR PROD= 540	MC ALESTER	628.91	28.97	29.4
CASE NO. 116	NEWPORT	654.10	28.16	*****
( 0/ 25/100)	HAWTHORNE	954.97	42.33	0.0
TEN YR PROD= 1350	MC ALESTER	679.41	29.09	26.6
CASE NO. 117	NEWPORT	636.48	28.11	*****
( 0/ 25/ 75)	HAWTHORNE	934.16	42.29	0.0
TEN YR PROD= 1080	MC ALESTER	660.49	29.04	27.6
CASE NO. 118	NEWPORT	618.86	28.07	*****
( 0/ 25/ 50)	HAWTHORNE	913.36	42.25	0.0
TEN YR PROD= 810	MC ALESTER	641.57	28.99	28.7
CASE NO. 119	NEWPORT	601.24	28.04	*****
( 0/ 25/ 25)	HAWTHORNE	892.55	42.23	0.0
TEN YR PROD= 540	MC ALESTER	622.65	28.96	29.8
CASE NO. 120	NEWPORT	583.61	28.02	*****
( 0/ 25/ 0)	HAWTHORNE	871.74	42.21	0.0
TEN YR PROD= 270	MC ALESTER	603.73	28.94	30.9

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTLs= -5% UTLs= -5%, LBR= -5%, TRANS= -5%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 121	NEWPORT	630.64	28.09	*****
( 0/ 0/100)	HAWTHORNE	927.28	42.28	0.0
TEN YR PROD= 1080	MC ALESTER	654.23	29.02	28.0
CASE NO. 122	NEWPORT	613.02	28.06	*****
( 0/ 0/ 75)	HAWTHORNE	906.47	42.24	0.0
TEN YR PROD= 810	MC ALESTER	635.31	28.98	29.0
CASE NO. 123	NEWPORT	595.40	28.03	*****
( 0/ 0/ 50)	HAWTHORNE	885.66	42.22	0.0
TEN YR PROD= 540	MC ALESTER	616.39	28.95	30.1
CASE NO. 124	NEWPORT	571.78	28.01	*****
( 0/ 0/ 25)	HAWTHORNE	864.86	42.21	0.0
TEN YR PROD= 270	MC ALESTER	597.47	28.93	31.2
CASE NO. 125	NEWPORT	560.16	28.01	*****
( 0/ 0/ 0)	HAWTHORNE	844.05	42.20	0.0
TEN YR PROD= 0	MC ALESTER	578.55	28.93	32.4

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RDX - HMX SITE SELECTION  
FOUR LINE CAPACITY  
COST /SENSITIVITY /RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 5% UTL= 5%, LBR= 5%, TRANS= 5%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 1 (100/100/100)	NEWPORT HAWTHORNE	935.27 1244.79	30.35 43.87	***** 0.0
TEN YR PROD= 3600	MC ALESTER	942.96	31.03	43.0
CASE NO. 2 (100/100/ 75)	NEWPORT HAWTHORNE	915.79 1223.99	30.12 43.71	***** 0.0
TEN YR PROD= 3330	MC ALESTER	924.04	30.83	42.4
CASE NO. 3 (100/100/ 50)	NEWPORT HAWTHORNE	896.32 1203.18	29.90 43.55	***** 0.0
TEN YR PROD= 3060	MC ALESTER	905.12	30.63	41.9
CASE NO. 4 (100/100/ 25)	NEWPORT HAWTHORNE	876.84 1182.37	29.69 43.40	***** 0.0
TEN YR PROD= 2790	MC ALESTER	886.20	30.44	41.3
CASE NO. 5 (100/100/ 0)	NEWPORT HAWTHORNE	857.37 1161.57	29.50 43.26	***** 0.0
TEN YR PROD= 2520	MC ALESTER	867.28	30.27	40.7
CASE NO. 6 (100/ 75/100)	NEWPORT HAWTHORNE	909.35 1217.10	30.05 43.65	***** 0.0
TEN YR PROD= 3330	MC ALESTER	917.78	30.76	42.2
CASE NO. 7 (100/ 75/ 75)	NEWPORT HAWTHORNE	889.87 1196.29	29.83 43.50	***** 0.0
TEN YR PROD= 3060	MC ALESTER	898.86	30.57	41.7
CASE NO. 8 (100/ 75/ 50)	NEWPORT HAWTHORNE	870.39 1175.49	29.63 43.35	***** 0.0
TEN YR PROD= 2790	MC ALESTER	879.94	30.38	41.1
CASE NO. 9 (100/ 75/ 25)	NEWPORT HAWTHORNE	850.92 1154.68	29.44 43.21	***** 0.0
TEN YR PROD= 2520	MC ALESTER	861.02	30.21	40.5
CASE NO. 10 (100/ 75/ 0)	NEWPORT HAWTHORNE	831.44 1133.87	29.25 43.08	***** 0.0
TEN YR PROD= 2250	MC ALESTER	842.10	30.05	40.0



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 5% UTL= 5%, LBR= 5%, TRANS= 5%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 11	NEWPORT	883.42	29.76	*****
(100/ 50/100)	HAWTHORNE	1189.41	43.45	0.0
TEN YR PROD= 3060	MC ALESTER	892.59	30.50	41.5
CASE NO. 12	NEWPORT	863.95	29.56	*****
(100/ 50/ 75)	HAWTHORNE	1168.60	43.31	0.0
TEN YR PROD= 2790	MC ALESTER	873.67	30.32	40.9
CASE NO. 13	NEWPORT	844.47	29.37	*****
(100/ 50/ 50)	HAWTHORNE	1147.79	43.17	0.0
TEN YR PROD= 2520	MC ALESTER	854.75	30.15	40.4
CASE NO. 14	NEWPORT	825.00	29.20	*****
(100/ 50/ 25)	HAWTHORNE	1126.99	43.04	0.0
TEN YR PROD= 2250	MC ALESTER	835.83	30.00	39.8
CASE NO. 15	NEWPORT	805.52	29.03	*****
(100/ 50/ 0)	HAWTHORNE	1106.18	42.93	0.0
TEN YR PROD= 1980	MC ALESTER	816.91	29.85	39.2
CASE NO. 16	NEWPORT	857.50	29.50	*****
(100/ 25/100)	HAWTHORNE	1161.71	43.26	0.0
TEN YR PROD= 2790	MC ALESTER	867.41	30.27	40.7
CASE NO. 17	NEWPORT	838.03	29.31	*****
(100/ 25/ 75)	HAWTHORNE	1140.91	43.13	0.0
TEN YR PROD= 2520	MC ALESTER	848.49	30.10	40.2
CASE NO. 18	NEWPORT	818.55	29.14	*****
(100/ 25/ 50)	HAWTHORNE	1120.10	43.00	0.0
TEN YR PROD= 2250	MC ALESTER	829.57	29.94	39.6
CASE NO. 19	NEWPORT	799.08	28.98	*****
(100/ 25/ 25)	HAWTHORNE	1099.29	42.89	0.0
TEN YR PROD= 1980	MC ALESTER	810.65	29.80	39.0
CASE NO. 20	NEWPORT	779.60	28.83	*****
(100/ 25/ 0)	HAWTHORNE	1078.49	42.78	0.0
TEN YR PROD= 1710	MC ALESTER	791.73	29.66	38.5

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 5% UTIL= 5%, LBR= 5%, TRANS= 5%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 21	NEWPORT	831.58	29.26	*****
(100/ 0/100)	HAWTHORNE	1134.02	43.09	0.0
TEN YR PROD= 2520	MC ALESTER	842.23	30.05	40.0
CASE NO. 22	NEWPORT	812.10	29.09	*****
(100/ 0/ 75)	HAWTHORNE	1113.21	42.96	0.0
TEN YR PROD= 2250	MC ALESTER	823.31	29.90	39.4
CASE NO. 23	NEWPORT	792.63	28.93	*****
(100/ 0/ 50)	HAWTHORNE	1092.41	42.85	0.0
TEN YR PROD= 1980	MC ALESTER	804.39	29.75	38.8
CASE NO. 24	NEWPORT	773.15	28.78	*****
(100/ 0/ 25)	HAWTHORNE	1071.60	42.75	0.0
TEN YR PROD= 1710	MC ALESTER	785.47	29.62	38.3
CASE NO. 25	NEWPORT	753.68	28.65	*****
(100/ 0/ 0)	HAWTHORNE	1050.79	42.65	0.0
TEN YR PROD= 1440	MC ALESTER	766.55	29.50	37.7
CASE NO. 26	NEWPORT	886.89	29.40	*****
( 75/100/100)	HAWTHORNE	1193.11	43.48	0.0
TEN YR PROD= 3240	MC ALESTER	895.96	30.54	41.6
CASE NO. 27	NEWPORT	867.41	29.60	*****
( 75/100/ 75)	HAWTHORNE	1172.30	43.33	0.0
TEN YR PROD= 2970	MC ALESTER	877.04	30.36	41.0
CASE NO. 28	NEWPORT	847.94	29.41	*****
( 75/100/ 50)	HAWTHORNE	1151.49	43.19	0.0
TEN YR PROD= 2700	MC ALESTER	858.12	30.18	40.5
CASE NO. 29	NEWPORT	828.46	29.23	*****
( 75/100/ 25)	HAWTHORNE	1130.69	43.07	0.0
TEN YR PROD= 2430	MC ALESTER	839.20	30.02	39.9
CASE NO. 30	NEWPORT	808.99	29.06	*****
( 75/100/ 0)	HAWTHORNE	1109.88	42.95	0.0
TEN YR PROD= 2160	MC ALESTER	820.28	29.87	39.3

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 5% UTL= 5%, LBR= 5%, TRANS= 5%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 31	NEWPORT	860.97	29.53	*****
( 75/ 75/100)	HAWTHORNE	1165.41	43.28	0.0
TEN YR PROD= 2970	MC ALESTER	870.78	30.30	40.8
CASE NO. 32	NEWPORT	841.49	29.35	*****
( 75/ 75/ 75)	HAWTHORNE	1144.61	43.15	0.0
TEN YR PROD= 2700	MC ALESTER	851.86	30.13	40.3
CASE NO. 33	NEWPORT	822.02	29.17	*****
( 75/ 75/ 50)	HAWTHORNE	1123.80	43.02	0.0
TEN YR PROD= 2430	MC ALESTER	832.94	29.97	39.7
CASE NO. 34	NEWPORT	802.54	29.01	*****
( 75/ 75/ 25)	HAWTHORNE	1102.99	42.91	0.0
TEN YR PROD= 2160	MC ALESTER	814.02	29.82	39.1
CASE NO. 35	NEWPORT	783.07	28.86	*****
( 75/ 75/ 0)	HAWTHORNE	1082.19	42.80	0.0
TEN YR PROD= 1890	MC ALESTER	795.10	29.69	38.6
CASE NO. 36	NEWPORT	835.04	29.29	*****
( 75/ 50/100)	HAWTHORNE	1137.72	43.11	0.0
TEN YR PROD= 2700	MC ALESTER	845.59	30.08	40.1
CASE NO. 37	NEWPORT	815.57	29.12	*****
( 75/ 50/ 75)	HAWTHORNE	1116.91	42.99	0.0
TEN YR PROD= 2430	MC ALESTER	826.67	29.92	39.5
CASE NO. 38	NEWPORT	796.09	28.96	*****
( 75/ 50/ 50)	HAWTHORNE	1096.11	42.87	0.0
TEN YR PROD= 2160	MC ALESTER	807.75	29.78	38.9
CASE NO. 39	NEWPORT	776.62	28.81	*****
( 75/ 50/ 25)	HAWTHORNE	1075.30	42.77	0.0
TEN YR PROD= 1890	MC ALESTER	788.83	29.65	38.4
CASE NO. 40	NEWPORT	757.14	28.67	*****
( 75/ 50/ 0)	HAWTHORNE	1054.49	42.67	0.0
TEN YR PROD= 1620	MC ALESTER	769.91	29.52	37.8

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RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 5% UTL= 5%, LBR= 5%, TRANS= 5%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 41	NEWPORT	809.12	29.06	****
( 75/ 25/100)	HAWTHORNE	1110.03	42.95	0.0
TEN YR PROD= 2430	MC ALESTER	820.41	29.87	39.3
CASE NO. 42	NEWPORT	789.65	28.91	****
( 75/ 25/ 75)	HAWTHORNE	1089.22	42.84	0.0
TEN YR PROD= 2160	MC ALESTER	801.49	29.73	38.8
CASE NO. 43	NEWPORT	770.17	28.76	****
( 75/ 25/ 50)	HAWTHORNE	1068.41	42.73	0.0
TEN YR PROD= 1890	MC ALESTER	782.57	29.60	38.2
CASE NO. 44	NEWPORT	750.70	28.63	****
( 75/ 25/ 25)	HAWTHORNE	1047.61	42.64	0.0
TEN YR PROD= 1620	MC ALESTER	763.65	29.48	37.6
CASE NO. 45	NEWPORT	731.22	28.51	****
( 75/ 25/ 0)	HAWTHORNE	1026.80	42.56	0.0
TEN YR PROD= 1350	MC ALESTER	744.73	29.38	37.1
CASE NO. 46	NEWPORT	783.20	28.86	****
( 75/ 0/100)	HAWTHORNE	1082.33	42.80	0.0
TEN YR PROD= 2160	MC ALESTER	795.23	29.69	38.6
CASE NO. 47	NEWPORT	763.73	28.72	****
( 75/ 0/ 75)	HAWTHORNE	1061.53	42.70	0.0
TEN YR PROD= 1890	MC ALESTER	776.31	29.56	38.0
CASE NO. 48	NEWPORT	744.25	28.59	****
( 75/ 0/ 50)	HAWTHORNE	1040.72	42.61	0.0
TEN YR PROD= 1620	MC ALESTER	757.39	29.45	37.4
CASE NO. 49	NEWPORT	724.77	28.47	****
( 75/ 0/ 25)	HAWTHORNE	1019.91	42.53	0.0
TEN YR PROD= 1350	MC ALESTER	738.47	29.34	36.9
CASE NO. 50	NEWPORT	705.30	28.37	****
( 75/ 0/ 0)	HAWTHORNE	999.11	42.46	0.0
TEN YR PROD= 1080	MC ALESTER	719.55	29.25	36.3



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 CONST= 0%, MTL= 5% UTL= 5%, LBR= 5%, TRANS= 5%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 51	NEWPORT	838.51	29.32	*****
( 50/100/100)	HAWTHORNE	1141.42	43.13	0.0
TEN YR PROD= 2880	MC ALESTER	848.96	30.10	40.2
CASE NO. 52	NEWPORT	819.03	29.15	*****
( 50/100/ 75)	HAWTHORNE	1120.62	43.01	0.0
TEN YR PROD= 2610	MC ALESTER	830.04	29.95	39.6
CASE NO. 53	NEWPORT	799.56	28.98	*****
( 50/100/ 50)	HAWTHORNE	1099.81	42.89	0.0
TEN YR PROD= 2340	MC ALESTER	811.12	29.80	39.0
CASE NO. 54	NEWPORT	780.08	28.83	*****
( 50/100/ 25)	HAWTHORNE	1079.00	42.78	0.0
TEN YR PROD= 2070	MC ALESTER	792.20	29.67	38.5
CASE NO. 55	NEWPORT	760.61	28.70	*****
( 50/100/ 0)	HAWTHORNE	1058.20	42.69	0.0
TEN YR PROD= 1800	MC ALESTER	773.28	29.54	37.9
CASE NO. 56	NEWPORT	812.59	29.09	*****
( 50/ 75/100)	HAWTHORNE	1113.73	42.97	0.0
TEN YR PROD= 2610	MC ALESTER	823.78	29.90	39.4
CASE NO. 57	NEWPORT	793.11	28.93	*****
( 50/ 75/ 75)	HAWTHORNE	1092.92	42.85	0.0
TEN YR PROD= 2340	MC ALESTER	804.86	29.76	38.9
CASE NO. 58	NEWPORT	773.64	28.79	*****
( 50/ 75/ 50)	HAWTHORNE	1072.12	42.75	0.0
TEN YR PROD= 2070	MC ALESTER	785.94	29.63	38.3
CASE NO. 59	NEWPORT	754.16	28.65	*****
( 50/ 75/ 25)	HAWTHORNE	1051.31	42.66	0.0
TEN YR PROD= 1800	MC ALESTER	767.02	29.51	37.7
CASE NO. 60	NEWPORT	734.69	28.53	*****
( 50/ 75/ 0)	HAWTHORNE	1030.50	42.57	0.0
TEN YR PROD= 1530	MC ALESTER	748.10	29.40	37.2



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 CONST= 0%, MTLs= 5% UTLs= 5%, LBR= 5%, TRANS= 5%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 61	NEWPORT	786.67	28.88	*****
( 50/ 50/100)	HAWTHORNE	1086.03	42.82	0.0
TEN YR PROD= 2340	MC ALESTER	798.60	29.71	38.7
CASE NO. 62	NEWPORT	767.19	28.14	*****
( 50/ 50/ 75)	HAWTHORNE	1065.23	42.72	0.0
TEN YR PROD= 2070	MC ALESTER	779.67	29.58	38.1
CASE NO. 63	NEWPORT	747.71	28.61	*****
( 50/ 50/ 50)	HAWTHORNE	1044.42	42.63	0.0
TEN YR PROD= 1800	MC ALESTER	760.75	29.47	37.5
CASE NO. 64	NEWPORT	728.24	28.49	*****
( 50/ 50/ 25)	HAWTHORNE	1023.61	42.54	0.0
TEN YR PROD= 1530	MC ALESTER	741.83	29.36	37.0
CASE NO. 65	NEWPORT	708.76	28.39	*****
( 50/ 50/ 0)	HAWTHORNE	1002.81	42.47	0.0
TEN YR PROD= 1260	MC ALESTER	722.91	29.27	36.4
CASE NO. 66	NEWPORT	760.74	28.70	*****
( 50/ 25/100)	HAWTHORNE	1058.34	42.69	0.0
TEN YR PROD= 2070	MC ALESTER	773.41	29.54	37.9
CASE NO. 67	NEWPORT	741.27	28.57	*****
( 50/ 25/ 75)	HAWTHORNE	1037.53	42.60	0.0
TEN YR PROD= 1800	MC ALESTER	754.49	29.43	37.4
CASE NO. 68	NEWPORT	721.79	28.46	*****
( 50/ 25/ 50)	HAWTHORNE	1016.73	42.52	0.0
TEN YR PROD= 1530	MC ALESTER	735.57	29.33	36.8
CASE NO. 69	NEWPORT	702.32	28.36	*****
( 50/ 25/ 25)	HAWTHORNE	995.92	42.45	0.0
TEN YR PROD= 1260	MC ALESTER	716.65	29.24	36.2
CASE NO. 70	NEWPORT	682.84	28.27	*****
( 50/ 25/ 0)	HAWTHORNE	975.11	42.38	0.0
TEN YR PROD= 990	MC ALESTER	697.73	29.16	35.7

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 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 71	NEWPORT	734.82	28.53	*****
( 50/ 0/100)	HAWTHORNE	1030.65	42.57	0.0
TEN YR PROD= 1800	MC ALESTER	748.23	29.40	37.2
CASE NO. 72	NEWPORT	715.35	28.42	*****
( 50/ 0/ 75)	HAWTHORNE	1009.84	42.49	0.0
TEN YR PROD= 1530	MC ALESTER	729.31	29.30	36.6
CASE NO. 73	NEWPORT	695.87	28.33	*****
( 50/ 0/ 50)	HAWTHORNE	989.03	42.42	0.0
TEN YR PROD= 1260	MC ALESTER	710.39	29.21	36.1
CASE NO. 74	NEWPORT	676.40	28.24	*****
( 50/ 0/ 25)	HAWTHORNE	968.23	42.37	0.0
TEN YR PROD= 990	MC ALESTER	691.47	29.14	35.5
CASE NO. 75	NEWPORT	656.92	28.17	*****
( 50/ 0/ 0)	HAWTHORNE	947.42	42.32	0.0
TEN YR PROD= 720	MC ALESTER	672.55	29.07	35.0
CASE NO. 76	NEWPORT	790.13	28.91	*****
( 25/100/100)	HAWTHORNE	1089.74	42.84	0.0
TEN YR PROD= 2520	MC ALESTER	801.96	29.74	38.8
CASE NO. 77	NEWPORT	770.66	28.77	*****
( 25/100/ 75)	HAWTHORNE	1068.93	42.74	0.0
TEN YR PROD= 2250	MC ALESTER	783.04	29.61	38.2
CASE NO. 78	NEWPORT	751.18	28.63	*****
( 25/100/ 50)	HAWTHORNE	1048.12	42.64	0.0
TEN YR PROD= 1980	MC ALESTER	764.12	29.49	37.6
CASE NO. 79	NEWPORT	731.70	28.51	*****
( 25/100/ 25)	HAWTHORNE	1027.32	42.56	0.0
TEN YR PROD= 1710	MC ALESTER	745.20	29.38	37.1
CASE NO. 80	NEWPORT	712.23	28.41	*****
( 25/100/ 0)	HAWTHORNE	1006.51	42.48	0.0
TEN YR PROD= 1440	MC ALESTER	726.28	29.28	36.5

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 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 81	NEWPORT	764.21	28.72	*****
( 25/ 75/100)	HAWTHORNE	1062.04	42.70	0.0
TEN YR PROD= 2250	MC ALESTER	776.78	29.57	38.0
CASE NO. 82	NEWPORT	744.73	28.59	*****
( 25/ 75/ 75)	HAWTHORNE	1041.24	42.61	0.0
TEN YR PROD= 1980	MC ALESTER	757.86	29.45	37.5
CASE NO. 83	NEWPORT	725.26	28.48	*****
( 25/ 75/ 50)	HAWTHORNE	1020.43	42.53	0.0
TEN YR PROD= 1710	MC ALESTER	738.94	29.35	36.9
CASE NO. 84	NEWPORT	705.78	28.37	*****
( 25/ 75/ 25)	HAWTHORNE	999.62	42.46	0.0
TEN YR PROD= 1440	MC ALESTER	720.02	29.25	36.3
CASE NO. 85	NEWPORT	686.31	28.28	*****
( 25/ 75/ 0)	HAWTHORNE	978.82	42.39	0.0
TEN YR PROD= 1170	MC ALESTER	701.10	29.17	35.8
CASE NO. 86	NEWPORT	738.29	28.55	*****
( 25/ 50/100)	HAWTHORNE	1034.35	42.58	0.0
TEN YR PROD= 1980	MC ALESTER	751.60	29.42	37.3
CASE NO. 87	NEWPORT	718.81	28.44	*****
( 25/ 50/ 75)	HAWTHORNE	1013.54	42.51	0.0
TEN YR PROD= 1710	MC ALESTER	732.68	29.32	36.7
CASE NO. 88	NEWPORT	699.34	28.34	*****
( 25/ 50/ 50)	HAWTHORNE	992.74	42.44	0.0
TEN YR PROD= 1440	MC ALESTER	713.75	29.23	36.2
CASE NO. 89	NEWPORT	679.86	28.26	*****
( 25/ 50/ 25)	HAWTHORNE	971.93	42.38	0.0
TEN YR PROD= 1170	MC ALESTER	694.83	29.15	35.6
CASE NO. 90	NEWPORT	660.38	28.18	*****
( 25/ 50/ 0)	HAWTHORNE	951.12	42.32	0.0
TEN YR PROD= 900	MC ALESTER	675.91	29.08	35.1



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 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 91	NEWPORT	712.36	28.41	*****
( 25/ 25/100)	HAWTHORNE	1006.66	42.48	0.0
TEN YR PROD= 1710	MC ALESTER	726.41	29.28	36.5
CASE NO. 92	NEWPORT	692.89	28.31	*****
( 25/ 25/ 75)	HAWTHORNE	985.85	42.42	0.0
TEN YR PROD= 1440	MC ALESTER	707.49	29.20	36.0
CASE NO. 93	NEWPORT	673.41	28.23	*****
( 25/ 25/ 50)	HAWTHORNE	965.04	42.36	0.0
TEN YR PROD= 1170	MC ALESTER	688.57	29.13	35.4
CASE NO. 94	NEWPORT	653.94	28.16	*****
( 25/ 25/ 25)	HAWTHORNE	944.24	42.31	0.0
TEN YR PROD= 900	MC ALESTER	669.65	29.06	34.9
CASE NO. 95	NEWPORT	634.46	28.10	*****
( 25/ 25/ 0)	HAWTHORNE	923.43	42.27	0.0
TEN YR PROD= 630	MC ALESTER	650.73	29.01	34.4
CASE NO. 96	NEWPORT	686.44	28.28	*****
( 25/ 0/100)	HAWTHORNE	978.96	42.40	0.0
TEN YR PROD= 1440	MC ALESTER	701.23	29.17	35.8
CASE NO. 97	NEWPORT	666.97	28.20	*****
( 25/ 0/ 75)	HAWTHORNE	958.16	42.34	0.0
TEN YR PROD= 1170	MC ALESTER	682.31	29.10	35.3
CASE NO. 98	NEWPORT	647.49	28.14	*****
( 25/ 0/ 50)	HAWTHORNE	937.35	42.29	0.0
TEN YR PROD= 900	MC ALESTER	663.39	29.05	34.7
CASE NO. 99	NEWPORT	628.02	28.09	*****
( 25/ 0/ 25)	HAWTHORNE	916.54	42.26	0.0
TEN YR PROD= 630	MC ALESTER	644.47	29.00	34.2
CASE NO. 100	NEWPORT	608.54	28.05	*****
( 25/ 0/ 0)	HAWTHORNE	895.74	42.23	0.0
TEN YR PROD= 360	MC ALESTER	625.55	28.96	33.7

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IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 101	NEWPORT	741.75	28.57	*****
( 0/100/100)	HAWTHORNE	1038.05	42.60	0.0
TEN YR PROD= 2160	MC ALESTER	754.96	29.43	37.4
CASE NO. 102	NEWPORT	722.28	28.46	*****
( 0/100/ 75)	HAWTHORNE	1017.24	42.52	0.0
TEN YR PROD= 1890	MC ALESTER	736.04	29.33	36.8
CASE NO. 103	NEWPORT	702.80	28.36	*****
( 0/100/ 50)	HAWTHORNE	996.44	42.45	0.0
TEN YR PROD= 1620	MC ALESTER	717.12	29.24	36.3
CASE NO. 104	NEWPORT	683.33	28.27	*****
( 0/100/ 25)	HAWTHORNE	975.63	42.39	0.0
TEN YR PROD= 1350	MC ALESTER	698.20	29.16	35.7
CASE NO. 105	NEWPORT	663.85	28.19	*****
( 0/100/ 0)	HAWTHORNE	954.83	42.33	0.0
TEN YR PROD= 1080	MC ALESTER	679.28	29.09	35.2
CASE NO. 106	NEWPORT	715.83	28.42	*****
( 0/ 75/100)	HAWTHORNE	1010.36	42.49	0.0
TEN YR PROD= 1890	MC ALESTER	729.78	29.30	36.6
CASE NO. 107	NEWPORT	696.35	28.33	*****
( 0/ 75/ 75)	HAWTHORNE	989.55	42.43	0.0
TEN YR PROD= 1620	MC ALESTER	710.86	29.21	36.1
CASE NO. 108	NEWPORT	676.88	28.24	*****
( 0/ 75/ 50)	HAWTHORNE	968.74	42.37	0.0
TEN YR PROD= 1350	MC ALESTER	691.94	29.14	35.5
CASE NO. 109	NEWPORT	657.40	28.17	*****
( 0/ 75/ 25)	HAWTHORNE	947.94	42.32	0.0
TEN YR PROD= 1080	MC ALESTER	673.02	29.07	35.0
CASE NO. 110	NEWPORT	637.93	28.11	*****
( 0/ 75/ 0)	HAWTHORNE	927.13	42.28	0.0
TEN YR PROD= 810	MC ALESTER	654.10	29.02	34.5



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IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 111	NEWPORT	689.91	28.30	****
( 0/ 50/100)	HAWTHORNE	982.66	42.41	0.0
TEN YR PROD= 1620	MC ALESTER	704.60	29.19	35.9
CASE NO. 112	NEWPORT	670.43	28.22	****
( 0/ 50/ 75)	HAWTHORNE	961.86	42.35	0.0
TEN YR PROD= 1350	MC ALESTER	685.68	29.12	35.3
CASE NO. 113	NEWPORT	650.96	28.15	****
( 0/ 50/ 50)	HAWTHORNE	941.05	42.30	0.0
TEN YR PROD= 1080	MC ALESTER	666.75	29.05	34.8
CASE NO. 114	NEWPORT	631.48	28.10	****
( 0/ 50/ 25)	HAWTHORNE	920.24	42.26	0.0
TEN YR PROD= 810	MC ALESTER	647.83	29.01	34.3
CASE NO. 115	NEWPORT	612.01	28.05	****
( 0/ 50/ 0)	HAWTHORNE	899.44	42.24	0.0
TEN YR PROD= 540	MC ALESTER	628.91	28.97	33.8
CASE NO. 116	NEWPORT	663.99	28.19	****
( 0/ 25/100)	HAWTHORNE	954.97	42.33	0.0
TEN YR PROD= 1350	MC ALESTER	679.41	29.09	35.2
CASE NO. 117	NEWPORT	644.51	28.13	****
( 0/ 25/ 75)	HAWTHORNE	934.16	42.29	0.0
TEN YR PROD= 1080	MC ALESTER	660.49	29.04	34.6
CASE NO. 118	NEWPORT	625.03	28.08	****
( 0/ 25/ 50)	HAWTHORNE	913.36	42.25	0.0
TEN YR PROD= 810	MC ALESTER	641.57	28.99	34.1
CASE NO. 119	NEWPORT	605.56	28.04	****
( 0/ 25/ 25)	HAWTHORNE	892.55	42.23	0.0
TEN YR PROD= 540	MC ALESTER	622.65	28.96	33.6
CASE NO. 120	NEWPORT	586.08	28.02	****
( 0/ 25/ 0)	HAWTHORNE	871.74	42.21	0.0
TEN YR PROD= 270	MC ALESTER	603.73	28.94	33.1

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 CONST= 0%, MTL= 5% UTL= 5%, LBR= 5%, TRANS= 5%  
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IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 121	NEWPORT	638.06	28.11	****
( 0/ 0/100)	HAWTHORNE	927.28	42.28	0.0
TEN YR PROD= 1080	MC ALESTER	654.23	29.02	34.5
CASE NO. 122	NEWPORT	618.59	28.07	****
( 0/ 0/ 75)	HAWTHORNE	906.47	42.24	0.0
TEN YR PROD= 810	MC ALESTER	635.31	28.98	33.9
CASE NO. 123	NEWPORT	599.11	28.03	****
( 0/ 0/ 50)	HAWTHORNE	885.66	42.22	0.0
TEN YR PROD= 540	MC ALESTER	616.39	28.95	33.4
CASE NO. 124	NEWPORT	579.64	28.01	****
( 0/ 0/ 25)	HAWTHORNE	864.86	42.21	0.0
TEN YR PROD= 270	MC ALESTER	597.47	28.93	32.9
CASE NO. 125	NEWPORT	560.16	28.01	****
( 0/ 0/ 0)	HAWTHORNE	844.05	42.20	0.0
TEN YR PROD= 0	MC ALESTER	578.55	28.93	32.4

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RDX - HMX SITE SELECTION  
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 CONST= 0%, MTL= 10% UTL= 10%, LBR= 10%, TRANS= 10%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 1 (100/100/100)	NEWPORT HAWTHORNE	953.13 1244.79	30.57 43.87	40.8 0.0
TEN YR PROD= 3600	MC ALESTER	942.96	31.03	*****
CASE NO. 2 (100/100/ 75)	NEWPORT HAWTHORNE	932.73 1223.99	30.32 43.71	42.0 0.0
TEN YR PROD= 3330	MC ALESTER	924.04	30.83	*****
CASE NO. 3 (100/100/ 50)	NEWPORT HAWTHORNE	912.32 1203.18	30.08 43.55	43.3 0.0
TEN YR PROD= 3060	MC ALESTER	905.12	30.63	*****
CASE NO. 4 (100/100/ 25)	NEWPORT HAWTHORNE	891.92 1182.37	29.85 43.40	44.7 0.0
TEN YR PROD= 2790	MC ALESTER	886.20	30.44	*****
CASE NO. 5 (100/100/ 0)	NEWPORT HAWTHORNE	871.52 1161.57	29.64 43.26	46.0 0.0
TEN YR PROD= 2520	MC ALESTER	867.28	30.27	*****
CASE NO. 6 (100/ 75/100)	NEWPORT HAWTHORNE	925.97 1217.10	30.24 43.65	42.5 0.0
TEN YR PROD= 3330	MC ALESTER	917.78	30.76	*****
CASE NO. 7 (100/ 75/ 75)	NEWPORT HAWTHORNE	905.57 1196.29	30.00 43.50	43.8 0.0
TEN YR PROD= 3060	MC ALESTER	898.86	30.57	*****
CASE NO. 8 (100/ 75/ 50)	NEWPORT HAWTHORNE	885.17 1175.49	29.78 43.35	45.1 0.0
TEN YR PROD= 2790	MC ALESTER	879.94	30.38	*****
CASE NO. 9 (100/ 75/ 25)	NEWPORT HAWTHORNE	864.76 1154.68	29.57 43.21	46.5 0.0
TEN YR PROD= 2520	MC ALESTER	861.02	30.21	*****
CASE NO. 10 (100/ 75/ 0)	NEWPORT HAWTHORNE	844.36 1133.87	29.37 43.08	47.0 0.0
TEN YR PROD= 2250	MC ALESTER	842.10	30.05	*****

RDX - HMX SITE SELECTION  
FOUR LINE CAPACITY  
COST /SENSITIVITY /RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 10% UTL= 10%, LBR= 10%, TRANS= 10%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 11	NEWPORT	898.82	29.93	44.2
(100/ 50/100)	HAWTHORNE	1189.41	43.45	0.0
TEN YR PROD= 3060	MC ALESTER	892.59	30.50	*****
CASE NO. 12	NEWPORT	878.41	29.71	45.6
(100/ 50/ 75)	HAWTHORNE	1168.60	43.31	0.0
TEN YR PROD= 2790	MC ALESTER	873.67	30.32	*****
CASE NO. 13	NEWPORT	858.01	29.50	46.9
(100/ 50/ 50)	HAWTHORNE	1147.79	43.17	0.0
TEN YR PROD= 2520	MC ALESTER	854.75	30.15	*****
CASE NO. 14	NEWPORT	837.61	29.31	48.3
(100/ 50/ 25)	HAWTHORNE	1126.99	43.04	0.0
TEN YR PROD= 2250	MC ALESTER	835.83	30.00	*****
CASE NO. 15	NEWPORT	817.21	29.13	49.7
(100/ 50/ 0)	HAWTHORNE	1106.18	42.93	0.0
TEN YR PROD= 1980	MC ALESTER	816.91	29.85	*****
CASE NO. 16	NEWPORT	871.66	29.64	46.0
(100/ 25/100)	HAWTHORNE	1161.71	43.26	0.0
TEN YR PROD= 2790	MC ALESTER	867.41	30.27	*****
CASE NO. 17	NEWPORT	851.26	29.44	47.4
(100/ 25/ 75)	HAWTHORNE	1140.91	43.13	0.0
TEN YR PROD= 2520	MC ALESTER	848.49	30.10	*****
CASE NO. 18	NEWPORT	830.85	29.25	48.8
(100/ 25/ 50)	HAWTHORNE	1120.10	43.00	0.0
TEN YR PROD= 2250	MC ALESTER	829.57	29.94	*****
CASE NO. 19	NEWPORT	810.45	29.07	*****
(100/ 25/ 25)	HAWTHORNE	1099.29	42.89	0.0
TEN YR PROD= 1980	MC ALESTER	810.65	29.80	49.8
CASE NO. 20	NEWPORT	790.05	28.91	*****
(100/ 25/ 0)	HAWTHORNE	1078.49	42.78	0.0
TEN YR PROD= 1710	MC ALESTER	791.73	29.66	48.4



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 10% UTLS= 10%, LBR= 10%, TRANS= 10%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 21	NEWPORT	844.50	29.37	47.8
(100/ 0/100)	HAWTHORNE	1134.02	43.09	0.0
TEN YR PROD= 2520	MC ALESTER	842.23	30.05	*****
CASE NO. 22	NEWPORT	824.10	29.19	49.2
(100/ 0/ 75)	HAWTHORNE	1113.21	42.96	0.0
TEN YR PROD= 2250	MC ALESTER	823.31	29.90	*****
CASE NO. 23	NEWPORT	803.70	29.02	*****
(100/ 0/ 50)	HAWTHORNE	1092.41	42.85	0.0
TEN YR PROD= 1980	MC ALESTER	804.39	29.75	49.3
CASE NO. 24	NEWPORT	783.30	28.86	*****
(100/ 0/ 75)	HAWTHORNE	1071.60	42.75	0.0
TEN YR PROD= 1710	MC ALESTER	785.47	29.62	47.9
CASE NO. 25	NEWPORT	762.89	28.71	*****
(100/ 0/ 0)	HAWTHORNE	1050.79	42.65	0.0
TEN YR PROD= 1440	MC ALESTER	766.55	29.50	46.5
CASE NO. 26	NEWPORT	902.45	29.97	44.0
( 75/100/100)	HAWTHORNE	1193.11	43.48	0.0
TEN YR PROD= 3240	MC ALESTER	895.96	30.54	*****
CASE NO. 27	NEWPORT	882.04	29.75	45.3
( 75/100/ 75)	HAWTHORNE	1172.30	43.33	0.0
TEN YR PROD= 2970	MC ALESTER	877.04	30.36	*****
CASE NO. 28	NEWPORT	861.64	29.54	46.7
( 75/100/ 50)	HAWTHORNE	1151.49	43.19	0.0
TEN YR PROD= 2700	MC ALESTER	858.12	30.18	*****
CASE NO. 29	NEWPORT	841.24	29.34	48.1
( 75/100/ 25)	HAWTHORNE	1130.69	43.07	0.0
TEN YR PROD= 2430	MC ALESTER	839.20	30.02	*****
CASE NO. 30	NEWPORT	820.84	29.16	49.5
( 75/100/ 0)	HAWTHORNE	1109.88	42.95	0.0
TEN YR PROD= 2160	MC ALESTER	820.28	29.87	*****

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 10% UTL= 10%, LBR= 10%, TRANS= 10%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 31	NEWPORT	875.29	29.68	45.8
( 75/ 75/100)	HAWTHORNE	1165.41	43.28	0.0
TEN YR PROD= 2970	MC ALESTER	870.78	30.30	*****
CASE NO. 32	NEWPORT	854.89	29.47	47.1
( 75/ 75/ 75)	HAWTHORNE	1144.61	43.15	0.0
TEN YR PROD= 2700	MC ALESTER	851.86	30.13	*****
CASE NO. 33	NEWPORT	834.49	29.28	48.5
( 75/ 75/ 50)	HAWTHORNE	1123.80	43.02	0.0
TEN YR PROD= 2430	MC ALESTER	832.94	29.97	*****
CASE NO. 34	NEWPORT	814.08	29.10	49.9
( 75/ 75/ 25)	HAWTHORNE	1102.99	42.91	0.0
TEN YR PROD= 2160	MC ALESTER	814.02	29.82	*****
CASE NO. 35	NEWPORT	793.68	28.94	*****
( 75/ 75/ 0)	HAWTHORNE	1082.19	42.80	0.0
TEN YR PROD= 1890	MC ALESTER	795.10	29.69	48.6
CASE NO. 36	NEWPORT	848.13	29.41	47.6
( 75/ 50/100)	HAWTHORNE	1137.72	43.11	0.0
TEN YR PROD= 2700	MC ALESTER	845.59	30.08	*****
CASE NO. 37	NEWPORT	827.73	29.22	49.0
( 75/ 50/ 75)	HAWTHORNE	1116.91	42.99	0.0
TEN YR PROD= 2430	MC ALESTER	826.67	29.92	*****
CASE NO. 38	NEWPORT	807.33	29.05	*****
( 75/ 50/ 50)	HAWTHORNE	1096.11	42.87	0.0
TEN YR PROD= 2160	MC ALESTER	807.75	29.78	49.6
CASE NO. 39	NEWPORT	786.93	28.88	*****
( 75/ 50/ 25)	HAWTHORNE	1075.30	42.77	0.0
TEN YR PROD= 1890	MC ALESTER	788.83	29.65	48.2
CASE NO. 40	NEWPORT	766.52	28.74	*****
( 75/ 50/ 0)	HAWTHORNE	1054.49	42.67	0.0
TEN YR PROD= 1620	MC ALESTER	769.91	29.52	46.7

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RDX - HMX SITE SELECTION  
FOUR LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 10% UTL= 10%, LBR= 10%, TRANS= 10%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 41	NEWPORT	820.98	29.16	49.5
( 75/ 25/ 100)	HAWTHORNE	1110.03	42.95	0.0
TEN YR PROD= 2430	MC ALESTER	820.41	29.87	****
CASE NO. 42	NEWPORT	800.57	28.99	****
( 75/ 25/ 75)	HAWTHORNE	1089.22	42.84	0.0
TEN YR PROD= 2160	MC ALESTER	801.49	29.73	49.1
CASE NO. 43	NEWPORT	780.17	28.93	****
( 75/ 25/ 50)	HAWTHORNE	1068.41	42.73	0.0
TEN YR PROD= 1890	MC ALESTER	782.57	29.60	47.7
CASE NO. 44	NEWPORT	759.77	28.69	****
( 75/ 25/ 25)	HAWTHORNE	1047.61	42.64	0.0
TEN YR PROD= 1620	MC ALESTER	763.65	29.48	46.2
CASE NO. 45	NEWPORT	739.37	28.56	****
( 75/ 25/ 0)	HAWTHORNE	1026.80	42.56	0.0
TEN YR PROD= 1350	MC ALESTER	744.73	29.38	44.8
CASE NO. 46	NEWPORT	793.82	28.94	****
( 75/ 0/ 100)	HAWTHORNE	1082.33	42.80	0.0
TEN YR PROD= 2160	MC ALESTER	795.23	29.69	48.6
CASE NO. 47	NEWPORT	773.42	28.78	****
( 75/ 0/ 75)	HAWTHORNE	1061.53	42.70	0.0
TEN YR PROD= 1890	MC ALESTER	776.31	29.56	47.2
CASE NO. 48	NEWPORT	753.02	28.64	****
( 75/ 0/ 50)	HAWTHORNE	1040.72	42.61	0.0
TEN YR PROD= 1620	MC ALESTER	757.39	29.45	45.8
CASE NO. 49	NEWPORT	732.61	28.52	****
( 75/ 0/ 25)	HAWTHORNE	1019.91	42.53	0.0
TEN YR PROD= 1350	MC ALESTER	738.47	29.34	44.3
CASE NO. 50	NEWPORT	712.21	28.41	****
( 75/ 0/ 0)	HAWTHORNE	999.11	42.46	0.0
TEN YR PROD= 1080	MC ALESTER	719.55	29.25	42.9

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 10% UTL= 10%, LBR= 10%, TRANS= 10%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 51	NEWPORT	851.76	29.44	47.3
( 50/100/100)	HAWTHORNE	1141.42	43.13	0.0
TEN YR PROD= 2880	MC ALESTER	848.96	30.10	*****
CASE NO. 52	NEWPORT	831.36	29.25	48.7
( 50/100/ 75)	HAWTHORNE	1120.62	43.01	0.0
TEN YR PROD= 2610	MC ALESTER	830.04	29.95	*****
CASE NO. 53	NEWPORT	810.96	29.08	*****
( 50/100/ 50)	HAWTHORNE	1099.81	42.89	0.0
TEN YR PROD= 2340	MC ALESTER	811.12	29.80	49.8
CASE NO. 54	NEWPORT	790.56	28.91	*****
( 50/100/ 25)	HAWTHORNE	1079.00	42.78	0.0
TEN YR PROD= 2070	MC ALESTER	792.20	29.67	48.4
CASE NO. 55	NEWPORT	770.15	28.76	*****
( 50/100/ 0)	HAWTHORNE	1058.20	42.69	0.0
TEN YR PROD= 1800	MC ALESTER	773.28	29.54	47.0
CASE NO. 56	NEWPORT	724.61	29.19	49.2
( 50/ 75/100)	HAWTHORNE	1113.73	42.97	0.0
TEN YR PROD= 2610	MC ALESTER	823.78	29.90	*****
CASE NO. 57	NEWPORT	804.21	29.02	*****
( 50/ 75/ 75)	HAWTHORNE	1092.92	42.85	0.0
TEN YR PROD= 2340	MC ALESTER	804.86	29.76	49.4
CASE NO. 58	NEWPORT	783.80	28.86	*****
( 50/ 75/ 50)	HAWTHORNE	1072.12	42.75	0.0
TEN YR PROD= 2070	MC ALESTER	785.94	29.63	47.9
CASE NO. 59	NEWPORT	763.40	28.71	*****
( 50/ 75/ 25)	HAWTHORNE	1051.31	42.66	0.0
TEN YR PROD= 1800	MC ALESTER	767.02	29.51	46.5
CASE NO. 60	NEWPORT	743.00	28.58	*****
( 50/ 75/ 0)	HAWTHORNE	1030.50	42.57	0.0
TEN YR PROD= 1530	MC ALESTER	748.10	29.40	45.1



RDX - MMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTLs= 10% UTLS= 10%, LBR= 10%, TRANS= 10%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 61	NEWPORT	797.45	28.97	*****
( 50/ 50/100)	HAWTHORNE	1086.03	42.82	0.0
TEN YR PROD= 2340	MC ALESTER	798.60	29.71	48.9
CASE NO. 62	NEWPORT	777.05	28.61	*****
( 50/ 50/ 75)	HAWTHORNE	1065.23	42.72	0.0
TEN YR PROD= 2070	MC ALESTER	779.67	29.58	47.5
CASE NO. 63	NEWPORT	756.65	28.67	*****
( 50/ 50/ 50)	HAWTHORNE	1044.42	42.63	0.0
TEN YR PROD= 1800	MC ALESTER	760.75	29.47	46.0
CASE NO. 64	NEWPORT	736.24	28.54	*****
( 50/ 50/ 25)	HAWTHORNE	1023.61	42.54	0.0
TEN YR PROD= 1530	MC ALESTER	741.83	29.36	44.6
CASE NO. 65	NEWPORT	715.84	28.42	*****
( 50/ 50/ 0)	HAWTHORNE	1002.81	42.47	0.0
TEN YR PROD= 1260	MC ALESTER	722.91	29.27	43.1
CASE NO. 66	NEWPORT	770.30	28.76	*****
( 50/ 25/100)	HAWTHORNE	1058.34	42.69	0.0
TEN YR PROD= 2070	MC ALESTER	773.41	29.54	47.0
CASE NO. 67	NEWPORT	749.89	28.62	*****
( 50/ 25/ 75)	HAWTHORNE	1037.53	42.60	0.0
TEN YR PROD= 1800	MC ALESTER	754.49	29.43	45.5
CASE NO. 68	NEWPORT	729.49	28.50	*****
( 50/ 25/ 50)	HAWTHORNE	1016.73	42.52	0.0
TEN YR PROD= 1530	MC ALESTER	735.57	29.33	44.1
CASE NO. 69	NEWPORT	709.09	28.39	*****
( 50/ 25/ 25)	HAWTHORNE	995.92	42.45	0.0
TEN YR PROD= 1260	MC ALESTER	716.65	29.24	42.6
CASE NO. 70	NEWPORT	688.68	28.29	*****
( 50/ 25/ 0)	HAWTHORNE	975.11	42.38	0.0
TEN YR PROD= 990	MC ALESTER	697.73	29.16	41.2



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 10% UTL= 10%, LBR= 10%, TRANS= 10%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 71	NEWPORT	743.14	28.58	*****
( 50/ 0/100)	HAWTHORNE	1030.65	42.57	0.0
TEN YR PROD= 1800	MC ALESTER	748.23	29.40	45.1
CASE NO. 72	NEWPORT	722.14	28.46	*****
( 50/ 0/ 75)	HAWTHORNE	1009.84	42.49	0.0
TEN YR PROD= 1530	MC ALESTER	729.31	29.30	43.6
CASE NO. 73	NEWPORT	702.33	28.36	*****
( 50/ 0/ 50)	HAWTHORNE	989.03	42.42	0.0
TEN YR PROD= 1260	MC ALESTER	710.39	29.21	42.2
CASE NO. 74	NEWPORT	681.93	28.26	*****
( 50/ 0/ 25)	HAWTHORNE	968.23	42.37	0.0
TEN YR PROD= 990	MC ALESTER	691.47	29.14	40.7
CASE NO. 75	NEWPORT	661.53	28.19	*****
( 50/ 0/ 0)	HAWTHORNE	947.42	42.32	0.0
TEN YR PROD= 720	MC ALESTER	672.55	29.07	39.3
CASE NO. 76	NEWPORT	801.08	29.00	*****
( 25/100/100)	HAWTHORNE	1089.74	42.84	0.0
TEN YR PROD= 2520	MC ALESTER	801.96	29.74	49.2
CASE NO. 77	NEWPORT	780.68	28.84	*****
( 25/100/ 75)	HAWTHORNE	1068.93	42.74	0.0
TEN YR PROD= 2250	MC ALESTER	783.04	29.61	47.7
CASE NO. 78	NEWPORT	760.28	28.69	*****
( 25/100/ 50)	HAWTHORNE	1048.12	42.64	0.0
TEN YR PROD= 1980	MC ALESTER	764.12	29.49	46.3
CASE NO. 79	NEWPORT	739.87	28.56	*****
( 25/100/ 25)	HAWTHORNE	1027.32	42.56	0.0
TEN YR PROD= 1710	MC ALESTER	745.20	29.38	44.8
CASE NO. 80	NEWPORT	719.47	28.44	*****
( 25/100/ 0)	HAWTHORNE	1006.51	42.48	0.0
TEN YR PROD= 1440	MC ALESTER	726.28	29.28	43.4

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 10% UTL= 10%, LBR= 10%, TRANS= 10%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 81	NEWPORT	773.93	28.79	*****
( 25/ 75/100)	HAWTHORNE	1062.04	42.70	0.0
TEN YR PROD= 2250	MC ALESTER	776.78	29.57	47.2
CASE NO. 82	NEWPORT	753.52	28.65	*****
( 25/ 75/ 75)	HAWTHORNE	1041.24	42.61	0.0
TEN YR PROD= 1980	MC ALESTER	757.86	29.45	45.8
CASE NO. 83	NEWPORT	733.12	28.52	*****
( 25/ 75/ 50)	HAWTHORNE	1020.43	42.53	0.0
TEN YR PROD= 1710	MC ALESTER	738.94	29.35	44.3
CASE NO. 84	NEWPORT	712.72	28.41	*****
( 25/ 75/ 25)	HAWTHORNE	999.62	42.46	0.0
TEN YR PROD= 1440	MC ALESTER	720.02	29.25	42.9
CASE NO. 85	NEWPORT	692.31	28.31	*****
( 25/ 75/ 0)	HAWTHORNE	978.82	42.39	0.0
TEN YR PROD= 1170	MC ALESTER	701.10	29.17	41.4
CASE NO. 86	NEWPORT	746.77	28.60	*****
( 25/ 50/100)	HAWTHORNE	1034.35	42.58	0.0
TEN YR PROD= 1980	MC ALESTER	751.60	29.42	45.3
CASE NO. 87	NEWPORT	726.37	28.48	*****
( 25/ 50/ 75)	HAWTHORNE	1013.54	42.51	0.0
TEN YR PROD= 1710	MC ALESTER	732.68	29.32	43.9
CASE NO. 88	NEWPORT	705.96	28.37	*****
( 25/ 50/ 50)	HAWTHORNE	992.74	42.44	0.0
TEN YR PROD= 1440	MC ALESTER	713.75	29.23	42.4
CASE NO. 89	NEWPORT	685.56	28.28	*****
( 25/ 50/ 25)	HAWTHORNE	971.93	42.38	0.0
TEN YR PROD= 1170	MC ALESTER	694.83	29.15	41.0
CASE NO. 90	NEWPORT	665.16	28.20	*****
( 25/ 50/ 0)	HAWTHORNE	951.12	42.32	0.0
TEN YR PROD= 900	MC ALESTER	675.91	29.08	39.5

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 10% UTLS= 10%, LBR= 10%, TRANS= 10%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 91	NEWPORT	719.61	28.44	*****
( 25/ 25/100)	HAWTHORNE	1006.66	42.48	0.0
TEN YR PROD= 1710	MC ALESTER	726.41	29.28	43.4
CASE NO. 92	NEWPORT	699.21	28.34	*****
( 25/ 25/ 75)	HAWTHORNE	985.85	42.42	0.0
TEN YR PROD= 1440	MC ALESTER	707.49	29.20	41.9
CASE NO. 93	NEWPORT	678.81	28.25	*****
( 25/ 25/ 50)	HAWTHORNE	965.04	42.36	0.0
TEN YR PROD= 1170	MC ALESTER	688.57	29.13	40.5
CASE NO. 94	NEWPORT	658.40	28.17	*****
( 25/ 25/ 25)	HAWTHORNE	944.24	42.31	0.0
TEN YR PROD= 900	MC ALESTER	669.65	29.06	39.1
CASE NO. 95	NEWPORT	638.00	28.11	*****
( 25/ 25/ 0)	HAWTHORNE	923.43	42.27	0.0
TEN YR PROD= 630	MC ALESTER	650.73	29.01	37.6
CASE NO. 96	NEWPORT	692.46	28.31	*****
( 25/ 0/100)	HAWTHORNE	978.96	42.40	0.0
TEN YR PROD= 1440	MC ALESTER	701.23	29.17	41.5
CASE NO. 97	NEWPORT	672.05	28.22	*****
( 25/ 0/ 75)	HAWTHORNE	958.16	42.34	0.0
TEN YR PROD= 1170	MC ALESTER	682.31	29.10	40.0
CASE NO. 98	NEWPORT	651.65	28.15	*****
( 25/ 0/ 50)	HAWTHORNE	937.35	42.29	0.0
TEN YR PROD= 900	MC ALESTER	663.39	29.05	38.6
CASE NO. 99	NEWPORT	631.25	28.10	*****
( 25/ 0/ 25)	HAWTHORNE	916.54	42.26	0.0
TEN YR PROD= 630	MC ALESTER	644.47	29.00	37.2
CASE NO. 100	NEWPORT	610.84	28.05	*****
( 25/ 0/ 0)	HAWTHORNE	895.74	42.23	0.0
TEN YR PROD= 360	MC ALESTER	625.55	28.96	35.8

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RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 10% UTL= 10%, LBR= 10%, TRANS= 10%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 101	NEWPORT	750.40	28.63	*****
( 0/100/100)	HAWTHORNE	1038.05	42.60	0.0
TEN YR PROD= 2160	MC ALESTER	754.96	29.43	45.6
CASE NO. 102	NEWPORT	730.00	28.50	*****
( 0/100/ 75)	HAWTHORNE	1017.24	42.52	0.0
TEN YR PROD= 1890	MC ALESTER	736.04	29.33	44.1
CASE NO. 103	NEWPORT	709.59	28.39	*****
( 0/100/ 50)	HAWTHORNE	996.44	42.45	0.0
TEN YR PROD= 1620	MC ALESTER	717.12	29.24	42.7
CASE NO. 104	NEWPORT	689.19	28.29	*****
( 0/100/ 25)	HAWTHORNE	975.63	42.39	0.0
TEN YR PROD= 1350	MC ALESTER	698.20	29.16	41.2
CASE NO. 105	NEWPORT	668.79	28.21	*****
( 0/100/ 0)	HAWTHORNE	954.83	42.33	0.0
TEN YR PROD= 1080	MC ALESTER	679.28	29.09	39.8
CASE NO. 106	NEWPORT	723.24	28.40	*****
( 0/ 75/100)	HAWTHORNE	1010.36	42.49	0.0
TEN YR PROD= 1890	MC ALESTER	729.78	29.30	43.6
CASE NO. 107	NEWPORT	702.84	28.36	*****
( 0/ 75/ 75)	HAWTHORNE	989.55	42.43	0.0
TEN YR PROD= 1620	MC ALESTER	710.86	29.21	42.2
CASE NO. 108	NEWPORT	682.44	28.27	*****
( 0/ 75/ 50)	HAWTHORNE	968.74	42.37	0.0
TEN YR PROD= 1350	MC ALESTER	691.94	29.14	40.7
CASE NO. 109	NEWPORT	662.03	28.19	*****
( 0/ 75/ 25)	HAWTHORNE	947.94	42.32	0.0
TEN YR PROD= 1080	MC ALESTER	673.02	29.07	39.3
CASE NO. 110	NEWPORT	641.63	28.12	*****
( 0/ 75/ 0)	HAWTHORNE	927.13	42.28	0.0
TEN YR PROD= 810	MC ALESTER	654.10	29.02	37.9



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 10% UTL= 10%, LBR= 10%, TRANS= 10%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 111	NEWPORT	696.09	28.33	*****
( 0/ 50/100)	HAWTHORNE	982.66	42.41	0.0
TEN YR PROD= 1620	MC ALESTER	704.60	29.19	41.7
CASE NO. 112	NEWPORT	675.68	28.24	*****
( 0/ 50/ 75)	HAWTHORNE	961.86	42.35	0.0
TEN YR PROD= 1350	MC ALESTER	685.68	29.12	40.3
CASE NO. 113	NEWPORT	655.28	28.16	*****
( 0/ 50/ 50)	HAWTHORNE	941.05	42.30	0.0
TEN YR PROD= 1080	MC ALESTER	666.75	29.05	38.8
CASE NO. 114	NEWPORT	634.88	28.10	*****
( 0/ 50/ 25)	HAWTHORNE	920.24	42.26	0.0
TEN YR PROD= 810	MC ALESTER	647.83	29.01	37.4
CASE NO. 115	NEWPORT	614.47	28.06	*****
( 0/ 50/ 0)	HAWTHORNE	899.44	42.24	0.0
TEN YR PROD= 540	MC ALESTER	628.91	28.97	36.0
CASE NO. 116	NEWPORT	668.93	28.21	*****
( 0/ 25/100)	HAWTHORNE	954.97	42.33	0.0
TEN YR PROD= 1350	MC ALESTER	679.41	29.09	39.8
CASE NO. 117	NEWPORT	648.53	28.14	*****
( 0/ 25/ 75)	HAWTHORNE	934.16	42.29	0.0
TEN YR PROD= 1080	MC ALESTER	660.49	29.04	38.4
CASE NO. 118	NEWPORT	628.12	28.09	*****
( 0/ 25/ 50)	HAWTHORNE	913.36	42.25	0.0
TEN YR PROD= 810	MC ALESTER	641.57	28.99	37.0
CASE NO. 119	NEWPORT	607.72	28.05	*****
( 0/ 25/ 25)	HAWTHORNE	892.55	42.23	0.0
TEN YR PROD= 540	MC ALESTER	622.65	28.96	35.6
CASE NO. 120	NEWPORT	587.32	28.02	*****
( 0/ 25/ 0)	HAWTHORNE	871.74	42.21	0.0
TEN YR PROD= 270	MC ALESTER	603.73	28.94	34.2



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL5= 10% UTL5= 10%, LBR= 10%, TRANS= 10%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 121	NEWPORT	641.77	28.12	*****
( 0/ 0/100)	HAWTHORNE	927.28	42.28	0.0
TEN YR PROD= 1080	MC ALESTER	654.23	29.02	37.9
CASE NO. 122	NEWPORT	621.37	28.07	*****
( 0/ 0/ 75)	HAWTHORNE	906.47	42.24	0.0
TEN YR PROD= 810	MC ALESTER	635.31	28.98	36.5
CASE NO. 123	NEWPORT	600.97	28.04	*****
( 0/ 0/ 50)	HAWTHORNE	885.66	42.22	0.0
TEN YR PROD= 540	MC ALESTER	616.39	28.95	35.1
CASE NO. 124	NEWPORT	580.56	28.02	*****
( 0/ 0/ 25)	HAWTHORNE	864.86	42.21	0.0
TEN YR PROD= 270	MC ALESTER	597.47	28.93	33.7
CASE NO. 125	NEWPORT	560.16	28.01	*****
( 0/ 0/ 0)	HAWTHORNE	844.05	42.20	0.0
TEN YR PROD= 0	MC ALESTER	578.55	28.93	32.4

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RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 5% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 1	NEWPORT	927.28	30.30	*****
(100/100/100)	HAWTHORNE	1244.79	43.87	0.0
TEN YR PROD= 3600	MC ALESTER	942.96	31.03	35.9
CASE NO. 2	NEWPORT	908.22	30.08	*****
(100/100/ 75)	HAWTHORNE	1223.99	43.71	0.0
TEN YR PROD= 3330	MC ALESTER	924.04	30.83	35.7
CASE NO. 3	NEWPORT	889.16	29.86	*****
(100/100/ 50)	HAWTHORNE	1203.18	43.55	0.0
TEN YR PROD= 3060	MC ALESTER	905.12	30.63	35.5
CASE NO. 4	NEWPORT	870.10	29.66	*****
(100/100/ 25)	HAWTHORNE	1182.37	43.40	0.0
TEN YR PROD= 2790	MC ALESTER	886.20	30.44	35.2
CASE NO. 5	NEWPORT	851.04	29.47	*****
(100/100/ 0)	HAWTHORNE	1161.57	43.26	0.0
TEN YR PROD= 2520	MC ALESTER	867.28	30.27	35.0
CASE NO. 6	NEWPORT	901.91	30.01	*****
(100/ 75/100)	HAWTHORNE	1217.10	43.65	0.0
TEN YR PROD= 3330	MC ALESTER	917.78	30.76	35.6
CASE NO. 7	NEWPORT	882.85	29.80	*****
(100/ 75/ 75)	HAWTHORNE	1196.29	43.50	0.0
TEN YR PROD= 3060	MC ALESTER	898.86	30.57	35.4
CASE NO. 8	NEWPORT	863.79	29.60	*****
(100/ 75/ 50)	HAWTHORNE	1175.49	43.35	0.0
TEN YR PROD= 2790	MC ALESTER	879.94	30.38	35.2
CASE NO. 9	NEWPORT	844.73	29.41	*****
(100/ 75/ 25)	HAWTHORNE	1154.68	43.21	0.0
TEN YR PROD= 2520	MC ALESTER	861.02	30.21	35.0
CASE NO. 10	NEWPORT	825.67	29.23	*****
(100/ 75/ 0)	HAWTHORNE	1133.87	43.08	0.0
TEN YR PROD= 2250	MC ALESTER	842.10	30.05	34.8

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 5% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 11	NEWPORT	876.54	29.73	*****
(100/ 50/100)	HAWTHORNE	1189.41	43.45	0.0
TEN YR PROD= 3060	MC ALESTER	892.59	30.50	35.3
CASE NO. 12	NEWPORT	857.48	29.53	*****
(100/ 50/ 75)	HAWTHORNE	1168.60	43.31	0.0
TEN YR PROD= 2790	MC ALESTER	873.67	30.32	35.1
CASE NO. 13	NEWPORT	838.42	29.35	*****
(100/ 50/ 50)	HAWTHORNE	1147.79	43.17	0.0
TEN YR PROD= 2520	MC ALESTER	854.75	30.15	34.9
CASE NO. 14	NEWPORT	819.36	29.17	*****
(100/ 50/ 25)	HAWTHORNE	1126.99	43.04	0.0
TEN YR PROD= 2250	MC ALESTER	835.83	30.00	34.7
CASE NO. 15	NEWPORT	800.30	29.01	*****
(100/ 50/ 0)	HAWTHORNE	1106.18	42.93	0.0
TEN YR PROD= 1980	MC ALESTER	816.91	29.85	34.5
CASE NO. 16	NEWPORT	851.17	29.47	*****
(100/ 25/100)	HAWTHORNE	1161.71	43.26	0.0
TEN YR PROD= 2790	MC ALESTER	867.41	30.27	35.0
CASE NO. 17	NEWPORT	832.11	29.29	*****
(100/ 25/ 75)	HAWTHORNE	1140.91	43.13	0.0
TEN YR PROD= 2520	MC ALESTER	848.49	30.10	34.8
CASE NO. 18	NEWPORT	813.05	29.12	*****
(100/ 25/ 50)	HAWTHORNE	1120.10	43.00	0.0
TEN YR PROD= 2250	MC ALESTER	829.57	29.94	34.6
CASE NO. 19	NEWPORT	793.99	28.96	*****
(100/ 25/ 25)	HAWTHORNE	1099.29	42.89	0.0
TEN YR PROD= 1980	MC ALESTER	810.65	29.80	34.4
CASE NO. 20	NEWPORT	774.93	28.81	*****
(100/ 25/ 0)	HAWTHORNE	1078.49	42.78	0.0
TEN YR PROD= 1710	MC ALESTER	791.73	29.66	34.2

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## RDX - HMX SITE SELECTION

FOUR LINE CAPACITY

COST / SENSITIVITY / RISK

INCREASE IN NEWPORT AAP COSTS

CONST= 0%, MTL= 5% UTL= 0%, LBR= 0%, TRANS= 0%

(COST IN \$MILLION DISCOUNTED AT 10%)

(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 21	NEWPORT	825.80	29.23	*****
(100/ 0/100)	HAWTHORNE	1134.02	43.09	0.0
TEN YR PROD= 2520	MC ALESTER	842.23	30.05	34.8
CASE NO. 22	NEWPORT	806.74	29.07	*****
(100/ 0/ 75)	HAWTHORNE	1113.21	42.96	0.0
TEN YR PROD= 2250	MC ALESTER	823.31	29.90	34.6
CASE NO. 23	NEWPORT	787.68	28.91	*****
(100/ 0/ 50)	HAWTHORNE	1092.41	42.85	0.0
TEN YR PROD= 1980	MC ALESTER	804.39	29.75	34.4
CASE NO. 24	NEWPORT	768.62	28.77	*****
(100/ 0/ 25)	HAWTHORNE	1071.60	42.75	0.0
TEN YR PROD= 1710	MC ALESTER	785.47	29.62	34.2
CASE NO. 25	NEWPORT	749.56	28.64	*****
(100/ 0/ 0)	HAWTHORNE	1050.79	42.65	0.0
TEN YR PROD= 1440	MC ALESTER	766.55	29.50	34.0
CASE NO. 26	NEWPORT	879.93	29.76	*****
( 75/100/100)	HAWTHORNE	1193.11	43.48	0.0
TEN YR PROD= 3240	MC ALESTER	895.96	30.54	35.3
CASE NO. 27	NEWPORT	860.87	29.57	*****
( 75/100/ 75)	HAWTHORNE	1172.30	43.33	0.0
TEN YR PROD= 2970	MC ALESTER	877.04	30.36	35.1
CASE NO. 28	NEWPORT	841.81	29.38	*****
( 75/100/ 50)	HAWTHORNE	1151.49	43.19	0.0
TEN YR PROD= 2700	MC ALESTER	858.12	30.18	34.9
CASE NO. 29	NEWPORT	822.75	29.20	*****
( 75/100/ 25)	HAWTHORNE	1130.69	43.07	0.0
TEN YR PROD= 2430	MC ALESTER	839.20	30.02	34.7
CASE NO. 30	NEWPORT	803.69	29.04	*****
( 75/100/ 0)	HAWTHORNE	1109.88	42.95	0.0
TEN YR PROD= 2160	MC ALESTER	820.28	29.87	34.5



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTLs= 5% UTLs= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 31	NEWPORT	854.56	29.50	*****
( 75/ 75/100)	HAWTHORNE	1165.41	43.28	0.0
TEN YR PROD= 2970	MC ALESTER	870.78	30.30	35.1
CASE NO. 32	NEWPORT	835.50	29.32	*****
( 75/ 75/ 75)	HAWTHORNE	1144.61	43.15	0.0
TEN YR PROD= 2700	MC ALESTER	851.86	30.13	34.9
CASE NO. 33	NEWPORT	816.44	29.15	*****
( 75/ 75/ 50)	HAWTHORNE	1123.80	43.02	0.0
TEN YR PROD= 2430	MC ALESTER	832.94	29.97	34.7
CASE NO. 34	NEWPORT	791.38	28.99	*****
( 75/ 75/ 25)	HAWTHORNE	1102.99	42.91	0.0
TEN YR PROD= 2160	MC ALESTER	814.02	29.82	34.5
CASE NO. 35	NEWPORT	778.32	28.84	*****
( 75/ 75/ 0)	HAWTHORNE	1082.19	42.80	0.0
TEN YR PROD= 1890	MC ALESTER	795.10	29.69	34.3
CASE NO. 36	NEWPORT	829.19	29.26	*****
( 75/ 50/100)	HAWTHORNE	1137.72	43.11	0.0
TEN YR PROD= 2700	MC ALESTER	845.59	30.08	34.8
CASE NO. 37	NEWPORT	810.13	29.09	*****
( 75/ 50/ 75)	HAWTHORNE	1116.91	42.99	0.0
TEN YR PROD= 2430	MC ALESTER	826.67	29.92	34.6
CASE NO. 38	NEWPORT	791.07	28.94	*****
( 75/ 50/ 50)	HAWTHORNE	1096.11	42.87	0.0
TEN YR PROD= 2160	MC ALESTER	807.75	29.78	34.4
CASE NO. 39	NEWPORT	772.01	28.79	*****
( 75/ 50/ 25)	HAWTHORNE	1075.30	42.77	0.0
TEN YR PROD= 1890	MC ALESTER	788.83	29.65	34.2
CASE NO. 40	NEWPORT	752.95	28.66	*****
( 75/ 50/ 0)	HAWTHORNE	1054.49	42.67	0.0
TEN YR PROD= 1620	MC ALESTER	769.91	29.52	34.0

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 5% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 41	NEWPORT	803.82	29.04	*****
( 75/ 25/100)	HAWTHORNE	1110.03	42.95	0.0
TEN YR PROD= 2430	MC ALESTER	820.41	29.87	34.5
CASE NO. 42	NEWPORT	784.16	28.89	*****
( 75/ 25/ 75)	HAWTHORNE	1089.22	42.84	0.0
TEN YR PROD= 2160	MC ALESTER	801.49	29.73	34.3
CASE NO. 43	NEWPORT	765.70	28.75	*****
( 75/ 25/ 50)	HAWTHORNE	1068.41	42.73	0.0
TEN YR PROD= 1890	MC ALESTER	782.57	29.60	34.1
CASE NO. 44	NEWPORT	746.64	28.62	*****
( 75/ 25/ 25)	HAWTHORNE	1047.61	42.64	0.0
TEN YR PROD= 1620	MC ALESTER	763.65	29.48	33.9
CASE NO. 45	NEWPORT	727.58	28.50	*****
( 75/ 25/ 0)	HAWTHORNE	1026.80	42.56	0.0
TEN YR PROD= 1350	MC ALESTER	744.73	29.38	33.8
CASE NO. 46	NEWPORT	778.45	28.84	*****
( 75/ 0/100)	HAWTHORNE	1082.33	42.80	0.0
TEN YR PROD= 2160	MC ALESTER	795.23	29.69	34.3
CASE NO. 47	NEWPORT	759.39	28.70	*****
( 75/ 0/ 75)	HAWTHORNE	1061.53	42.70	0.0
TEN YR PROD= 1890	MC ALESTER	776.31	29.56	34.1
CASE NO. 48	NEWPORT	740.33	28.58	*****
( 75/ 0/ 50)	HAWTHORNE	1040.72	42.61	0.0
TEN YR PROD= 1620	MC ALESTER	757.39	29.45	33.9
CASE NO. 49	NEWPORT	721.27	28.46	*****
( 75/ 0/ 25)	HAWTHORNE	1019.91	42.53	0.0
TEN YR PROD= 1350	MC ALESTER	738.47	29.34	33.7
CASE NO. 50	NEWPORT	702.21	28.36	*****
( 75/ 0/ 0)	HAWTHORNE	999.11	42.46	0.0
TEN YR PROD= 1080	MC ALESTER	719.55	29.25	33.5

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 5% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 51	NEWPORT	832.58	29.29	*****
( 50/100/100)	HAWTHORNE	1141.42	43.13	0.0
TEN YR PROD= 2880	MC ALESTER	848.96	30.10	34.8
CASE NO. 52	NEWPORT	813.52	29.12	*****
( 50/100/ 75)	HAWTHORNE	1120.62	43.01	0.0
TEN YR PROD= 2610	MC ALESTER	830.04	29.95	34.6
CASE NO. 53	NEWPORT	794.46	28.96	*****
( 50/100/ 50)	HAWTHORNE	1099.81	42.89	0.0
TEN YR PROD= 2340	MC ALESTER	811.12	29.80	34.4
CASE NO. 54	NEWPORT	775.40	28.82	*****
( 50/100/ 25)	HAWTHORNE	1079.00	42.78	0.0
TEN YR PROD= 2070	MC ALESTER	792.20	29.67	34.2
CASE NO. 55	NEWPORT	756.34	28.68	*****
( 50/100/ 0)	HAWTHORNE	1058.20	42.69	0.0
TEN YR PROD= 1800	MC ALESTER	773.28	29.54	34.0
CASE NO. 56	NEWPORT	807.21	29.07	*****
( 50/ 75/100)	HAWTHORNE	1113.73	42.97	0.0
TEN YR PROD= 2610	MC ALESTER	823.78	29.90	34.6
CASE NO. 57	NEWPORT	788.15	28.91	*****
( 50/ 75/ 75)	HAWTHORNE	1092.92	42.85	0.0
TEN YR PROD= 2340	MC ALESTER	804.86	29.76	34.4
CASE NO. 58	NEWPORT	769.09	28.77	*****
( 50/ 75/ 50)	HAWTHORNE	1072.12	42.75	0.0
TEN YR PROD= 2070	MC ALESTER	785.94	29.63	34.2
CASE NO. 59	NEWPORT	750.03	28.64	*****
( 50/ 75/ 25)	HAWTHORNE	1051.31	42.66	0.0
TEN YR PROD= 1800	MC ALESTER	767.02	29.51	34.0
CASE NO. 60	NEWPORT	730.97	28.52	*****
( 50/ 75/ 0)	HAWTHORNE	1030.50	42.57	0.0
TEN YR PROD= 1530	MC ALESTER	748.10	29.40	33.8



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RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 5% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 61	NEWPORT	781.84	28.87	*****
( 50/ 50/100)	HAWTHORNE	1086.03	42.32	0.0
TEN YR PROD= 2340	MC ALESTER	798.60	29.71	34.3
CASE NO. 62	NEWPORT	762.78	28.73	*****
( 50/ 50/ 75)	HAWTHORNE	1065.23	42.72	0.0
TEN YR PROD= 2070	MC ALESTER	779.67	29.58	34.1
CASE NO. 63	NEWPORT	743.72	28.60	*****
( 50/ 50/ 50)	HAWTHORNE	1044.42	42.63	0.0
TEN YR PROD= 1800	MC ALESTER	760.75	29.47	33.9
CASE NO. 64	NEWPORT	724.66	28.48	*****
( 50/ 50/ 25)	HAWTHORNE	1023.61	42.54	0.0
TEN YR PROD= 1530	MC ALESTER	741.83	29.36	33.7
CASE NO. 65	NEWPORT	705.60	28.38	*****
( 50/ 50/ 0)	HAWTHORNE	1002.81	42.47	0.0
TEN YR PROD= 1260	MC ALESTER	722.91	29.27	33.6
CASE NO. 66	NEWPORT	756.47	28.68	*****
( 50/ 25/100)	HAWTHORNE	1058.34	42.69	0.0
TEN YR PROD= 2070	MC ALESTER	773.41	29.54	34.0
CASE NO. 67	NEWPORT	737.41	28.56	*****
( 50/ 25/ 75)	HAWTHORNE	1037.53	42.60	0.0
TEN YR PROD= 1800	MC ALESTER	754.49	29.43	33.9
CASE NO. 68	NEWPORT	718.35	28.45	*****
( 50/ 25/ 50)	HAWTHORNE	1016.73	42.52	0.0
TEN YR PROD= 1530	MC ALESTER	735.57	29.33	33.7
CASE NO. 69	NEWPORT	699.29	28.35	*****
( 50/ 25/ 25)	HAWTHORNE	995.92	42.45	0.0
TEN YR PROD= 1260	MC ALESTER	716.65	29.24	33.5
CASE NO. 70	NEWPORT	680.23	28.26	*****
( 50/ 25/ 0)	HAWTHORNE	975.11	42.38	0.0
TEN YR PROD= 990	MC ALESTER	697.73	29.16	33.3

RDX - HMX SITE SELECTION  
FOUR LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 5% UTL= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 71	NEWPORT	731.10	28.52	*****
( 50/ 0/100)	HAWTHORNE	1030.65	42.57	0.0
TEN YR PROD= 1800	MC ALESTER	748.23	29.40	33.8
CASE NO. 72	NEWPORT	712.04	28.41	*****
( 50/ 0/ 75)	HAWTHORNE	1009.84	42.49	0.0
TEN YR PROD= 1530	MC ALESTER	729.31	29.30	33.6
CASE NO. 73	NEWPORT	692.98	28.32	*****
( 50/ 0/ 50)	HAWTHORNE	989.03	42.42	0.0
TEN YR PROD= 1260	MC ALESTER	710.39	29.21	33.4
CASE NO. 74	NEWPORT	673.92	28.24	*****
( 50/ 0/ 25)	HAWTHORNE	968.23	42.37	0.0
TEN YR PROD= 990	MC ALESTER	691.47	29.14	33.3
CASE NO. 75	NEWPORT	654.86	28.17	*****
( 50/ 0/ 0)	HAWTHORNE	947.42	42.32	0.0
TEN YR PROD= 720	MC ALESTER	672.55	29.07	33.1
CASE NO. 76	NEWPORT	785.23	28.89	*****
( 25/100/100)	HAWTHORNE	1089.74	42.84	0.0
TEN YR PROD= 2520	MC ALESTER	801.96	29.74	34.3
CASE NO. 77	NEWPORT	766.17	28.75	*****
( 25/100/ 75)	HAWTHORNE	1068.93	42.74	0.0
TEN YR PROD= 2250	MC ALESTER	783.04	29.61	34.1
CASE NO. 78	NEWPORT	747.11	28.62	*****
( 25/100/ 50)	HAWTHORNE	1048.12	42.64	0.0
TEN YR PROD= 1980	MC ALESTER	764.12	29.49	33.9
CASE NO. 79	NEWPORT	728.05	28.50	*****
( 25/100/ 25)	HAWTHORNE	1027.32	42.56	0.0
TEN YR PROD= 1710	MC ALESTER	745.20	29.38	33.8
CASE NO. 80	NEWPORT	708.99	28.40	*****
( 25/100/ 0)	HAWTHORNE	1006.51	42.48	0.0
TEN YR PROD= 1440	MC ALESTER	726.28	29.28	33.6



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 5% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 81	NEWPORT	759.86	28.71	*****
( 25/ 75/100)	HAWTHORNE	1062.04	42.70	0.0
TEN YR PROD= 2250	MC ALESTER	776.78	29.57	34.1
CASE NO. 82	NEWPORT	740.80	28.58	*****
( 25/ 75/ 75)	HAWTHORNE	1041.24	42.61	0.0
TEN YR PROD= 1980	MC ALESTER	757.86	29.45	33.9
CASE NO. 83	NEWPORT	721.74	28.47	*****
( 25/ 75/ 50)	HAWTHORNE	1020.43	42.53	0.0
TEN YR PROD= 1710	MC ALESTER	738.94	29.35	33.7
CASE NO. 84	NEWPORT	702.68	28.37	*****
( 25/ 75/ 25)	HAWTHORNE	999.62	42.46	0.0
TEN YR PROD= 1440	MC ALESTER	720.02	29.25	33.5
CASE NO. 85	NEWPORT	683.62	28.28	*****
( 25/ 75/ 0)	HAWTHORNE	978.82	42.39	0.0
TEN YR PROD= 1170	MC ALESTER	701.10	29.17	33.4
CASE NO. 86	NEWPORT	734.49	28.54	*****
( 25/ 50/100)	HAWTHORNE	1034.35	42.58	0.0
TEN YR PROD= 1980	MC ALESTER	751.60	29.42	33.8
CASE NO. 87	NEWPORT	715.43	28.43	*****
( 25/ 50/ 75)	HAWTHORNE	1013.54	42.51	0.0
TEN YR PROD= 1710	MC ALESTER	732.68	29.32	33.6
CASE NO. 88	NEWPORT	696.37	28.33	*****
( 25/ 50/ 50)	HAWTHORNE	992.74	42.44	0.0
TEN YR PROD= 1440	MC ALESTER	713.75	29.23	33.5
CASE NO. 89	NEWPORT	677.31	28.25	*****
( 25/ 50/ 25)	HAWTHORNE	971.93	42.38	0.0
TEN YR PROD= 1170	MC ALESTER	694.83	29.15	33.3
CASE NO. 90	NEWPORT	658.25	28.18	*****
( 25/ 50/ 0)	HAWTHORNE	951.12	42.32	0.0
TEN YR PROD= 900	MC ALESTER	675.91	29.08	33.1

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 5% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 91 ( 25/ 25/100)	NEWPORT HAWTHORNE	709.12 1006.66	28.40 42.48	***** 0.0
TEN YR PROD= 1710	MC ALESTER	726.41	29.28	33.6
CASE NO. 92 ( 25/ 25/ 75)	NEWPORT HAWTHORNE	690.06 985.85	28.31 42.42	***** 0.0
TEN YR PROD= 1440	MC ALESTER	707.49	29.20	33.4
CASE NO. 93 ( 25/ 25/ 50)	NEWPORT HAWTHORNE	671.00 965.04	28.22 42.36	***** 0.0
TEN YR PROD= 1170	MC ALESTER	688.57	29.13	33.2
CASE NO. 94 ( 25/ 25/ 25)	NEWPORT HAWTHORNE	651.94 944.24	28.16 42.31	***** 0.0
TEN YR PROD= 900	MC ALESTER	669.65	29.06	33.1
CASE NO. 95 ( 25/ 25/ 0)	NEWPORT HAWTHORNE	632.88 923.43	28.10 42.27	***** 0.0
TEN YR PROD= 630	MC ALESTER	650.73	29.01	32.9
CASE NO. 96 ( 25/ 0/100)	NEWPORT HAWTHORNE	683.75 978.96	28.28 42.40	***** 0.0
TEN YR PROD= 1440	MC ALESTER	701.23	29.17	33.4
CASE NO. 97 ( 25/ 0/ 75)	NEWPORT HAWTHORNE	664.69 958.16	28.20 42.34	***** 0.0
TEN YR PROD= 1170	MC ALESTER	682.31	29.10	33.2
CASE NO. 98 ( 25/ 0/ 50)	NEWPORT HAWTHORNE	645.63 937.35	28.14 42.29	***** 0.0
TEN YR PROD= 900	MC ALESTER	663.39	29.05	33.0
CASE NO. 99 ( 25/ 0/ 25)	NEWPORT HAWTHORNE	626.57 916.54	28.09 42.26	***** 0.0
TEN YR PROD= 630	MC ALESTER	644.47	29.00	32.9
CASE NO. 100 ( 25/ 0/ 0)	NEWPORT HAWTHORNE	607.51 895.74	28.05 42.23	***** 0.0
TEN YR PROD= 360	MC ALESTER	625.55	28.96	32.7

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 5% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 101	NEWPORT	737.88	28.56	*****
( 0/100/100)	HAWTHORNE	1038.05	42.60	0.0
TEN YR PROD= 2160	MC ALESTER	754.96	29.43	33.9
CASE NO. 102	NEWPORT	718.82	28.45	*****
( 0/100/ 75)	HAWTHORNE	1017.24	42.52	0.0
TEN YR PROD= 1890	MC ALESTER	736.04	29.33	33.7
CASE NO. 103	NEWPORT	699.76	28.35	*****
( 0/100/ 50)	HAWTHORNE	996.44	42.45	0.0
TEN YR PROD= 1620	MC ALESTER	717.12	29.24	33.5
CASE NO. 104	NEWPORT	680.70	28.26	*****
( 0/100/ 25)	HAWTHORNE	975.63	42.39	0.0
TEN YR PROD= 1350	MC ALESTER	698.20	29.16	33.3
CASE NO. 105	NEWPORT	661.64	28.19	*****
( 0/100/ 0)	HAWTHORNE	954.83	42.33	0.0
TEN YR PROD= 1080	MC ALESTER	679.28	29.09	33.2
CASE NO. 106	NEWPORT	712.51	28.42	*****
( 0/ 75/100)	HAWTHORNE	1010.36	42.49	0.0
TEN YR PROD= 1890	MC ALESTER	729.78	29.30	33.6
CASE NO. 107	NEWPORT	693.45	28.32	*****
( 0/ 75/ 75)	HAWTHORNE	989.55	42.43	0.0
TEN YR PROD= 1620	MC ALESTER	710.86	29.21	33.4
CASE NO. 108	NEWPORT	674.39	28.24	*****
( 0/ 75/ 50)	HAWTHORNE	968.74	42.37	0.0
TEN YR PROD= 1350	MC ALESTER	691.94	29.14	33.3
CASE NO. 109	NEWPORT	655.33	28.17	*****
( 0/ 75/ 25)	HAWTHORNE	947.94	42.32	0.0
TEN YR PROD= 1080	MC ALESTER	673.02	29.07	33.1
CASE NO. 110	NEWPORT	636.27	28.11	*****
( 0/ 75/ 0)	HAWTHORNE	927.13	42.28	0.0
TEN YR PROD= 810	MC ALESTER	654.10	29.02	33.0



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 5% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 111	NEWPORT	687.14	28.29	*****
( 0/ 50/100)	HAWTHORNE	982.66	42.41	0.0
TEN YR PROD= 1620	MC ALESTER	704.60	29.19	33.4
CASE NO. 112	NEWPORT	668.08	28.21	*****
( 0/ 50/ 75)	HAWTHORNE	961.86	42.35	0.0
TEN YR PROD= 1350	MC ALESTER	685.68	29.12	33.2
CASE NO. 113	NEWPORT	649.02	28.15	*****
( 0/ 50/ 50)	HAWTHORNE	941.05	42.30	0.0
TEN YR PROD= 1080	MC ALESTER	666.75	29.05	33.1
CASE NO. 114	NEWPORT	629.96	28.09	*****
( 0/ 50/ 25)	HAWTHORNE	920.24	42.26	0.0
TEN YR PROD= 810	MC ALESTER	647.83	29.01	32.9
CASE NO. 115	NEWPORT	610.90	28.05	*****
( 0/ 50/ 0)	HAWTHORNE	899.44	42.24	0.0
TEN YR PROD= 540	MC ALESTER	628.91	28.97	32.8
CASE NO. 116	NEWPORT	661.77	28.19	*****
( 0/ 25/100)	HAWTHORNE	954.97	42.33	0.0
TEN YR PROD= 1350	MC ALESTER	679.41	29.09	33.2
CASE NO. 117	NEWPORT	642.71	28.13	*****
( 0/ 25/ 75)	HAWTHORNE	934.16	42.29	0.0
TEN YR PROD= 1080	MC ALESTER	660.49	29.04	33.0
CASE NO. 118	NEWPORT	623.65	28.08	*****
( 0/ 25/ 50)	HAWTHORNE	913.36	42.25	0.0
TEN YR PROD= 810	MC ALESTER	641.57	28.99	32.9
CASE NO. 119	NEWPORT	604.59	28.04	*****
( 0/ 25/ 25)	HAWTHORNE	892.55	42.23	0.0
TEN YR PROD= 540	MC ALESTER	622.65	28.96	32.7
CASE NO. 120	NEWPORT	585.53	28.02	*****
( 0/ 25/ 0)	HAWTHORNE	871.74	42.21	0.0
TEN YR PROD= 270	MC ALESTER	603.73	28.94	32.6

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RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 5% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 121	NEWPORT	636.40	28.11	****
( 0/ 0/100)	HAWTHORNE	927.28	42.28	0.0
TEN YR PROD= 1080	MC ALESTER	654.23	29.02	33.0
CASE NO. 122	NEWPORT	617.34	28.07	****
( 0/ 0/ 75)	HAWTHORNE	906.47	42.24	0.0
TEN YR PROD= 810	MC ALESTER	635.31	28.98	32.8
CASE NO. 123	NEWPORT	598.28	28.03	****
( 0/ 0/ 50)	HAWTHORNE	885.66	42.22	0.0
TEN YR PROD= 540	MC ALESTER	616.39	28.95	32.7
CASE NO. 124	NEWPORT	579.22	28.01	****
( 0/ 0/ 25)	HAWTHORNE	864.86	42.21	0.0
TEN YR PROD= 270	MC ALESTER	597.47	28.93	32.5
CASE NO. 125	NEWPORT	560.16	28.01	****
( 0/ 0/ 0)	HAWTHORNE	844.05	42.20	0.0
TEN YR PROD= 0	MC ALESTER	578.55	28.93	32.4

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RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTLS= 5%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 1	NEWPORT	920.91	30.16	*****
(100/100/100)	HAWTHORNE	1244.79	43.87	0.0
TEN YR PROD= 3600	MC ALESTER	942.96	31.03	30.5
CASE NO. 2	NEWPORT	902.18	29.95	*****
(100/100/ 75)	HAWTHORNE	1223.99	43.71	0.0
TEN YR PROD= 3330	MC ALESTER	924.04	30.83	30.6
CASE NO. 3	NEWPORT	883.45	29.75	*****
(100/100/ 50)	HAWTHORNE	1203.18	43.55	0.0
TEN YR PROD= 3060	MC ALESTER	905.12	30.63	30.6
CASE NO. 4	NEWPORT	864.72	29.56	*****
(100/100/ 25)	HAWTHORNE	1182.37	43.40	0.0
TEN YR PROD= 2790	MC ALESTER	886.20	30.44	30.6
CASE NO. 5	NEWPORT	845.99	29.38	*****
(100/100/ 0)	HAWTHORNE	1161.57	43.26	0.0
TEN YR PROD= 2520	MC ALESTER	867.28	30.27	30.7
CASE NO. 6	NEWPORT	895.98	29.88	*****
(100/ 75/100)	HAWTHORNE	1217.10	43.65	0.0
TEN YR PROD= 3330	MC ALESTER	917.78	30.76	30.6
CASE NO. 7	NEWPORT	877.25	29.68	*****
(100/ 75/ 75)	HAWTHORNE	1196.29	43.50	0.0
TEN YR PROD= 3060	MC ALESTER	898.86	30.57	30.6
CASE NO. 8	NEWPORT	858.52	29.50	*****
(100/ 75/ 50)	HAWTHORNE	1175.49	43.35	0.0
TEN YR PROD= 2790	MC ALESTER	879.94	30.38	30.7
CASE NO. 9	NEWPORT	839.79	29.32	*****
(100/ 75/ 25)	HAWTHORNE	1154.68	43.21	0.0
TEN YR PROD= 2520	MC ALESTER	861.02	30.21	30.7
CASE NO. 10	NEWPORT	821.06	29.15	*****
(100/ 75/ 0)	HAWTHORNE	1133.87	43.08	0.0
TEN YR PROD= 2250	MC ALESTER	842.10	30.05	30.8

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTLS= 5%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 11	NEWPORT	871.05	29.62	*****
(100/ 50/100)	HAWTHORNE	1189.41	43.45	0.0
TEN YR PROD= 3060	MC ALESTER	892.59	30.50	30.6
CASE NO. 12	NEWPORT	852.32	29.44	*****
(100/ 50/ 75)	HAWTHORNE	1168.60	43.31	0.0
TEN YR PROD= 2790	MC ALESTER	873.67	30.32	30.7
CASE NO. 13	NEWPORT	833.59	29.26	*****
(100/ 50/ 50)	HAWTHORNE	1147.79	43.17	0.0
TEN YR PROD= 2520	MC ALESTER	854.75	30.15	30.7
CASE NO. 14	NEWPORT	814.86	29.10	*****
(100/ 50/ 25)	HAWTHORNE	1126.99	43.04	0.0
TEN YR PROD= 2250	MC ALESTER	835.83	30.00	30.8
CASE NO. 15	NEWPORT	796.13	28.95	*****
(100/ 50/ 0)	HAWTHORNE	1106.18	42.93	0.0
TEN YR PROD= 1980	MC ALESTER	816.91	29.85	30.9
CASE NO. 16	NEWPORT	846.12	29.38	*****
(100/ 25/100)	HAWTHORNE	1161.71	43.26	0.0
TEN YR PROD= 2790	MC ALESTER	867.41	30.27	30.7
CASE NO. 17	NEWPORT	827.39	29.21	*****
(100/ 25/ 75)	HAWTHORNE	1140.91	43.13	0.0
TEN YR PROD= 2520	MC ALESTER	848.49	30.10	30.7
CASE NO. 18	NEWPORT	808.66	29.05	*****
(100/ 25/ 50)	HAWTHORNE	1120.10	43.00	0.0
TEN YR PROD= 2250	MC ALESTER	829.57	29.94	30.8
CASE NO. 19	NEWPORT	789.93	28.90	*****
(100/ 25/ 25)	HAWTHORNE	1099.29	42.89	0.0
TEN YR PROD= 1980	MC ALESTER	810.65	29.80	30.9
CASE NO. 20	NEWPORT	771.20	28.76	*****
(100/ 25/ 0)	HAWTHORNE	1078.49	42.78	0.0
TEN YR PROD= 1710	MC ALESTER	791.73	29.66	31.0

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTLS= 5%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 21	NEWPORT	821.19	29.15	*****
(100/ 0/100)	HAWTHORNE	1134.02	43.09	0.0
TEN YR PROD= 2520	MC ALESTER	842.23	30.05	30.8
CASE NO. 22	NEWPORT	802.46	29.00	*****
(100/ 0/ 75)	HAWTHORNE	1113.21	42.96	0.0
TEN YR PROD= 2250	MC ALESTER	823.31	29.90	30.8
CASE NO. 23	NEWPORT	783.73	28.85	*****
(100/ 0/ 50)	HAWTHORNE	1092.41	42.85	0.0
TEN YR PROD= 1980	MC ALESTER	804.39	29.75	30.9
CASE NO. 24	NEWPORT	765.00	28.72	*****
(100/ 0/ 25)	HAWTHORNE	1071.60	42.75	0.0
TEN YR PROD= 1710	MC ALESTER	785.47	29.62	31.0
CASE NO. 25	NEWPORT	746.27	28.60	*****
(100/ 0/ 0)	HAWTHORNE	1050.79	42.65	0.0
TEN YR PROD= 1440	MC ALESTER	766.55	29.50	31.1
CASE NO. 26	NEWPORT	874.39	29.65	*****
( 75/100/100)	HAWTHORNE	1193.11	43.48	0.0
TEN YR PROD= 3240	MC ALESTER	895.96	30.54	30.6
CASE NO. 27	NEWPORT	855.66	29.47	*****
( 75/100/ 75)	HAWTHORNE	1172.30	43.33	0.0
TEN YR PROD= 2970	MC ALESTER	877.04	30.36	30.7
CASE NO. 28	NEWPORT	836.93	29.29	*****
( 75/100/ 50)	HAWTHORNE	1151.49	43.19	0.0
TEN YR PROD= 2700	MC ALESTER	858.12	30.18	30.7
CASE NO. 29	NEWPORT	818.19	29.13	*****
( 75/100/ 25)	HAWTHORNE	1130.69	43.07	0.0
TEN YR PROD= 2430	MC ALESTER	839.20	30.02	30.8
CASE NO. 30	NEWPORT	799.46	28.97	*****
( 75/100/ 0)	HAWTHORNE	1109.88	42.95	0.0
TEN YR PROD= 2160	MC ALESTER	820.28	29.87	30.8



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTLS= 5%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 31	NEWPORT	849.46	29.41	*****
( 75/ 75/100)	HAWTHORNE	1165.41	43.28	0.0
TEN YR PROD= 2970	MC ALESTER	870.78	30.30	30.7
CASE NO. 32	NEWPORT	830.73	29.24	*****
( 75/ 75/ 75)	HAWTHORNE	1144.61	43.15	0.0
TEN YR PROD= 2700	MC ALESTER	851.86	30.13	30.7
CASE NO. 33	NEWPORT	811.99	29.08	*****
( 75/ 75/ 50)	HAWTHORNE	1123.80	43.02	0.0
TEN YR PROD= 2430	MC ALESTER	832.94	29.97	30.8
CASE NO. 34	NEWPORT	793.26	28.93	*****
( 75/ 75/ 25)	HAWTHORNE	1102.99	42.91	0.0
TEN YR PROD= 2160	MC ALESTER	814.02	29.82	30.9
CASE NO. 35	NEWPORT	774.53	28.79	*****
( 75/ 75/ 0)	HAWTHORNE	1082.19	42.80	0.0
TEN YR PROD= 1890	MC ALESTER	795.10	29.69	31.0
CASE NO. 36	NEWPORT	824.53	29.18	*****
( 75/ 50/100)	HAWTHORNE	1137.72	43.11	0.0
TEN YR PROD= 2700	MC ALESTER	845.59	30.08	30.8
CASE NO. 37	NEWPORT	805.79	29.02	*****
( 75/ 50/ 75)	HAWTHORNE	1116.91	42.99	0.0
TEN YR PROD= 2430	MC ALESTER	826.67	29.92	30.8
CASE NO. 38	NEWPORT	787.06	28.88	*****
( 75/ 50/ 50)	HAWTHORNE	1096.11	42.87	0.0
TEN YR PROD= 2160	MC ALESTER	807.75	29.78	30.9
CASE NO. 39	NEWPORT	768.33	28.74	*****
( 75/ 50/ 25)	HAWTHORNE	1075.30	42.77	0.0
TEN YR PROD= 1890	MC ALESTER	788.83	29.65	31.0
CASE NO. 40	NEWPORT	749.60	28.62	*****
( 75/ 50/ 0)	HAWTHORNE	1054.49	42.67	0.0
TEN YR PROD= 1620	MC ALESTER	769.91	29.52	31.1



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RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 5%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 41	NEWPORT	799.60	28.97	*****
( 75/ 25/100)	HAWTHORNE	1110.03	42.95	0.0
TEN YR PROD= 2430	MC ALESTER	820.41	29.87	30.8
CASE NO. 42	NEWPORT	780.86	28.83	*****
( 75/ 25/ 75)	HAWTHORNE	1089.22	42.84	0.0
TEN YR PROD= 2160	MC ALESTER	801.49	29.73	30.9
CASE NO. 43	NEWPORT	762.13	28.70	*****
( 75/ 25/ 50)	HAWTHORNE	1068.41	42.73	0.0
TEN YR PROD= 1890	MC ALESTER	782.57	29.60	31.0
CASE NO. 44	NEWPORT	743.40	28.58	*****
( 75/ 25/ 25)	HAWTHORNE	1047.61	42.64	0.0
TEN YR PROD= 1620	MC ALESTER	763.65	29.48	31.1
CASE NO. 45	NEWPORT	724.67	28.47	*****
( 75/ 25/ 0)	HAWTHORNE	1026.80	42.56	0.0
TEN YR PROD= 1350	MC ALESTER	744.73	29.38	31.2
CASE NO. 46	NEWPORT	774.67	28.79	*****
( 75/ 0/100)	HAWTHORNE	1082.33	42.80	0.0
TEN YR PROD= 2160	MC ALESTER	795.23	29.69	30.9
CASE NO. 47	NEWPORT	755.93	28.66	*****
( 75/ 0/ 75)	HAWTHORNE	1061.53	42.70	0.0
TEN YR PROD= 1890	MC ALESTER	776.31	29.56	31.0
CASE NO. 48	NEWPORT	737.20	28.54	*****
( 75/ 0/ 50)	HAWTHORNE	1040.72	42.61	0.0
TEN YR PROD= 1620	MC ALESTER	757.39	29.45	31.1
CASE NO. 49	NEWPORT	718.47	28.43	*****
( 75/ 0/ 25)	HAWTHORNE	1019.91	42.53	0.0
TEN YR PROD= 1350	MC ALESTER	738.47	29.34	31.2
CASE NO. 50	NEWPORT	699.74	28.34	*****
( 75/ 0/ 0)	HAWTHORNE	999.11	42.46	0.0
TEN YR PROD= 1080	MC ALESTER	719.55	29.25	31.3

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 5%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 51	NEWPORT	827.86	29.21	*****
( 50/100/100)	HAWTHORNE	1141.42	43.13	0.0
TEN YR PROD= 2880	MC ALESTER	848.96	30.10	30.7
CASE NO. 52	NEWPORT	809.13	29.05	*****
( 50/100/ 75)	HAWTHORNE	1120.62	43.01	0.0
TEN YR PROD= 2610	MC ALESTER	830.04	29.95	30.8
CASE NO. 53	NEWPORT	790.40	28.90	*****
( 50/100/ 50)	HAWTHORNE	1099.81	42.89	0.0
TEN YR PROD= 2340	MC ALESTER	811.12	29.80	30.9
CASE NO. 54	NEWPORT	771.67	28.77	*****
( 50/100/ 25)	HAWTHORNE	1079.00	42.78	0.0
TEN YR PROD= 2070	MC ALESTER	792.20	29.67	31.0
CASE NO. 55	NEWPORT	752.94	28.64	*****
( 50/100/ 0)	HAWTHORNE	1058.20	42.69	0.0
TEN YR PROD= 1800	MC ALESTER	773.28	29.54	31.1
CASE NO. 56	NEWPORT	802.93	29.00	*****
( 50/ 75/100)	HAWTHORNE	1113.73	42.97	0.0
TEN YR PROD= 2610	MC ALESTER	823.78	29.90	30.8
CASE NO. 57	NEWPORT	784.20	28.86	*****
( 50/ 75/ 75)	HAWTHORNE	1092.92	42.85	0.0
TEN YR PROD= 2340	MC ALESTER	804.86	29.76	30.9
CASE NO. 58	NEWPORT	765.47	28.72	*****
( 50/ 75/ 50)	HAWTHORNE	1072.12	42.75	0.0
TEN YR PROD= 2070	MC ALESTER	785.94	29.63	31.0
CASE NO. 59	NEWPORT	746.74	28.60	*****
( 50/ 75/ 25)	HAWTHORNE	1051.31	42.66	0.0
TEN YR PROD= 1800	MC ALESTER	767.02	29.51	31.1
CASE NO. 60	NEWPORT	728.01	28.49	*****
( 50/ 75/ 0)	HAWTHORNE	1030.50	42.57	0.0
TEN YR PROD= 1530	MC ALESTER	748.10	29.40	31.2

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL5= 0% UTLS= 5%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 61	NEWPORT	778.00	28.81	*****
( 50/ 50/100)	HAWTHORNE	1086.03	42.82	0.0
TEN YR PROD= 2340	MC ALESTER	798.60	29.71	30.9
CASE NO. 62	NEWPORT	759.27	28.68	*****
( 50/ 50/ 75)	HAWTHORNE	1065.23	42.72	0.0
TEN YR PROD= 2070	MC ALESTER	779.67	29.58	31.0
CASE NO. 63	NEWPORT	740.54	28.56	*****
( 50/ 50/ 50)	HAWTHORNE	1044.42	42.63	0.0
TEN YR PROD= 1800	MC ALESTER	760.75	29.47	31.1
CASE NO. 64	NEWPORT	721.81	28.45	*****
( 50/ 50/ 25)	HAWTHORNE	1023.61	42.54	0.0
TEN YR PROD= 1530	MC ALESTER	741.83	29.36	31.2
CASE NO. 65	NEWPORT	703.08	28.36	*****
( 50/ 50/ 0)	HAWTHORNE	1002.81	42.47	0.0
TEN YR PROD= 1260	MC ALESTER	722.91	29.27	31.3
CASE NO. 66	NEWPORT	753.07	28.64	*****
( 50/ 25/100)	HAWTHORNE	1058.34	42.69	0.0
TEN YR PROD= 2070	MC ALESTER	773.41	29.54	31.1
CASE NO. 67	NEWPORT	734.34	28.52	*****
( 50/ 25/ 75)	HAWTHORNE	1037.53	42.60	0.0
TEN YR PROD= 1800	MC ALESTER	754.49	29.43	31.1
CASE NO. 68	NEWPORT	715.61	28.42	*****
( 50/ 25/ 50)	HAWTHORNE	1016.73	42.52	0.0
TEN YR PROD= 1530	MC ALESTER	735.57	29.33	31.2
CASE NO. 69	NEWPORT	696.88	28.33	*****
( 50/ 25/ 25)	HAWTHORNE	995.92	42.45	0.0
TEN YR PROD= 1260	MC ALESTER	716.65	29.24	31.4
CASE NO. 70	NEWPORT	678.15	28.25	*****
( 50/ 25/ 0)	HAWTHORNE	975.11	42.38	0.0
TEN YR PROD= 990	MC ALESTER	697.73	29.16	31.5

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RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 5%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 71	NEWPORT	728.14	28.49	*****
( 50/ 0/100)	HAWTHORNE	1030.65	42.57	0.0
TEN YR PROD= 1800	MC ALESTER	748.23	29.40	31.2
CASE NO. 72	NEWPORT	709.41	28.39	*****
( 50/ 0/ 75)	HAWTHORNE	1009.84	42.49	0.0
TEN YR PROD= 1530	MC ALESTER	729.31	29.30	31.3
CASE NO. 73	NEWPORT	690.68	28.30	*****
( 50/ 0/ 50)	HAWTHORNE	989.03	42.42	0.0
TEN YR PROD= 1260	MC ALESTER	710.39	29.21	31.4
CASE NO. 74	NEWPORT	671.95	28.22	*****
( 50/ 0/ 25)	HAWTHORNE	968.23	42.37	0.0
TEN YR PROD= 990	MC ALESTER	691.47	29.14	31.5
CASE NO. 75	NEWPORT	653.22	28.16	*****
( 50/ 0/ 0)	HAWTHORNE	947.42	42.32	0.0
TEN YR PROD= 720	MC ALESTER	672.55	29.07	31.6
CASE NO. 76	NEWPORT	781.33	28.83	*****
( 25/100/100)	HAWTHORNE	1089.74	42.84	0.0
TEN YR PROD= 2520	MC ALESTER	801.96	29.74	30.9
CASE NO. 77	NEWPORT	762.60	28.70	*****
( 25/100/ 75)	HAWTHORNE	1068.93	42.74	0.0
TEN YR PROD= 2250	MC ALESTER	783.04	29.61	31.0
CASE NO. 78	NEWPORT	743.87	28.58	*****
( 25/100/ 50)	HAWTHORNE	1048.12	42.64	0.0
TEN YR PROD= 1980	MC ALESTER	764.12	29.49	31.1
CASE NO. 79	NEWPORT	725.14	28.47	*****
( 25/100/ 25)	HAWTHORNE	1027.32	42.56	0.0
TEN YR PROD= 1710	MC ALESTER	745.20	29.38	31.2
CASE NO. 80	NEWPORT	706.41	28.37	*****
( 25/100/ 0)	HAWTHORNE	1006.51	42.48	0.0
TEN YR PROD= 1440	MC ALESTER	726.28	29.28	31.3



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 5%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 81 ( 25/ 75/100)	NEWPORT HAWTHORNE	756.40 1062.04	28.66 42.70	***** 0.0
TEN YR PROD= 2250	MC ALESTER	776.78	29.57	31.0
CASE NO. 82 ( 25/ 75/ 75)	NEWPORT HAWTHORNE	737.67 1041.24	28.54 42.61	***** 0.0
TEN YR PROD= 1980	MC ALESTER	757.86	29.45	31.1
CASE NO. 83 ( 25/ 75/ 50)	NEWPORT HAWTHORNE	718.94 1020.43	28.44 42.53	***** 0.0
TEN YR PROD= 1710	MC ALESTER	738.94	29.35	31.2
CASE NO. 84 ( 25/ 75/ 25)	NEWPORT HAWTHORNE	700.21 999.62	28.34 42.46	***** 0.0
TEN YR PROD= 1440	MC ALESTER	720.02	29.25	31.3
CASE NO. 85 ( 25/ 75/ 0)	NEWPORT HAWTHORNE	681.48 978.82	28.26 42.39	***** 0.0
TEN YR PROD= 1170	MC ALESTER	701.10	29.17	31.5
CASE NO. 86 ( 25/ 50/100)	NEWPORT HAWTHORNE	731.47 1034.35	28.51 42.58	***** 0.0
TEN YR PROD= 1980	MC ALESTER	751.60	29.42	31.2
CASE NO. 87 ( 25/ 50/ 75)	NEWPORT HAWTHORNE	712.74 1013.54	28.40 42.51	***** 0.0
TEN YR PROD= 1710	MC ALESTER	732.68	29.32	31.3
CASE NO. 88 ( 25/ 50/ 50)	NEWPORT HAWTHORNE	694.01 992.74	28.31 42.44	***** 0.0
TEN YR PROD= 1440	MC ALESTER	713.75	29.23	31.4
CASE NO. 89 ( 25/ 50/ 25)	NEWPORT HAWTHORNE	675.28 971.93	28.23 42.38	***** 0.0
TEN YR PROD= 1170	MC ALESTER	694.83	29.15	31.5
CASE NO. 90 ( 25/ 50/ 0)	NEWPORT HAWTHORNE	656.55 951.12	28.17 42.32	***** 0.0
TEN YR PROD= 900	MC ALESTER	675.91	29.08	31.6



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTLS= 5%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 91	NEWPORT	706.54	28.37	*****
( 25/ 25/100)	HAWTHORNE	1006.66	42.48	0.0
TEN YR PROD= 1710	MC ALESTER	726.41	29.28	31.3
CASE NO. 92	NEWPORT	687.81	28.29	*****
( 25/ 25/ 75)	HAWTHORNE	985.85	42.42	0.0
TEN YR PROD= 1440	MC ALESTER	707.49	29.20	31.4
CASE NO. 93	NEWPORT	669.08	28.21	*****
( 25/ 25/ 50)	HAWTHORNE	965.04	42.36	0.0
TEN YR PROD= 1170	MC ALESTER	688.57	29.13	31.5
CASE NO. 94	NEWPORT	650.35	28.15	*****
( 25/ 25/ 25)	HAWTHORNE	944.24	42.31	0.0
TEN YR PROD= 900	MC ALESTER	669.65	29.06	31.7
CASE NO. 95	NEWPORT	631.62	28.10	*****
( 25/ 25/ 0)	HAWTHORNE	923.43	42.27	0.0
TEN YR PROD= 630	MC ALESTER	650.73	29.01	31.8
CASE NO. 96	NEWPORT	681.61	28.26	*****
( 25/ 0/100)	HAWTHORNE	978.96	42.40	0.0
TEN YR PROD= 1440	MC ALESTER	701.23	29.17	31.5
CASE NO. 97	NEWPORT	662.88	28.19	*****
( 25/ 0/ 75)	HAWTHORNE	958.16	42.34	0.0
TEN YR PROD= 1170	MC ALESTER	682.31	29.10	31.6
CASE NO. 98	NEWPORT	644.15	28.13	*****
( 25/ 0/ 50)	HAWTHORNE	937.35	42.29	0.0
TEN YR PROD= 900	MC ALESTER	663.39	29.05	31.7
CASE NO. 99	NEWPORT	625.42	28.08	*****
( 25/ 0/ 25)	HAWTHORNE	916.54	42.26	0.0
TEN YR PROD= 630	MC ALESTER	644.47	29.00	31.9
CASE NO. 100	NEWPORT	606.69	28.05	*****
( 25/ 0/ 0)	HAWTHORNE	895.74	42.23	0.0
TEN YR PROD= 360	MC ALESTER	625.55	28.96	32.0

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 5%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 101	NEWPORT	734.80	28.53	*****
( 0/100/100)	HAWTHORNE	1038.05	42.60	0.0
TEN YR PROD= 2160	MC ALESTER	754.96	29.43	31.1
CASE NO. 102	NEWPORT	716.07	28.42	*****
( 0/100/ 75)	HAWTHORNE	1017.24	42.52	0.0
TEN YR PROD= 1890	MC ALESTER	736.04	29.33	31.2
CASE NO. 103	NEWPORT	697.34	28.33	*****
( 0/100/ 50)	HAWTHORNE	996.44	42.45	0.0
TEN YR PROD= 1620	MC ALESTER	717.12	29.24	31.4
CASE NO. 104	NEWPORT	678.61	28.25	*****
( 0/100/ 25)	HAWTHORNE	975.63	42.39	0.0
TEN YR PROD= 1350	MC ALESTER	698.20	29.16	31.5
CASE NO. 105	NEWPORT	659.88	28.18	*****
( 0/100/ 0)	HAWTHORNE	954.83	42.33	0.0
TEN YR PROD= 1080	MC ALESTER	679.28	29.09	31.6
CASE NO. 106	NEWPORT	709.87	28.39	*****
( 0/ 75/100)	HAWTHORNE	1010.36	42.49	0.0
TEN YR PROD= 1890	MC ALESTER	729.78	29.30	31.3
CASE NO. 107	NEWPORT	691.14	28.30	*****
( 0/ 75/ 75)	HAWTHORNE	989.55	42.43	0.0
TEN YR PROD= 1620	MC ALESTER	710.86	29.21	31.4
CASE NO. 108	NEWPORT	672.41	28.22	*****
( 0/ 75/ 50)	HAWTHORNE	968.74	42.37	0.0
TEN YR PROD= 1350	MC ALESTER	691.94	29.14	31.5
CASE NO. 109	NEWPORT	653.68	28.16	*****
( 0/ 75/ 25)	HAWTHORNE	947.94	42.32	0.0
TEN YR PROD= 1080	MC ALESTER	673.02	29.07	31.6
CASE NO. 110	NEWPORT	634.95	28.10	*****
( 0/ 75/ 0)	HAWTHORNE	927.13	42.28	0.0
TEN YR PROD= 810	MC ALESTER	654.10	29.02	31.8

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 5%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 111	NEWPORT	684.94	28.27	*****
( 0/ 50/100)	HAWTHORNE	982.66	42.41	0.0
TEN YR PROD= 1620	MC ALESTER	704.60	29.19	31.4
CASE NO. 112	NEWPORT	666.21	28.20	*****
( 0/ 50/ 75)	HAWTHORNE	961.86	42.35	0.0
TEN YR PROD= 1350	MC ALESTER	685.68	29.12	31.6
CASE NO. 113	NEWPORT	647.48	28.14	*****
( 0/ 50/ 50)	HAWTHORNE	941.05	42.30	0.0
TEN YR PROD= 1080	MC ALESTER	666.75	29.05	31.7
CASE NO. 114	NEWPORT	628.75	28.09	*****
( 0/ 50/ 25)	HAWTHORNE	920.24	42.26	0.0
TEN YR PROD= 810	MC ALESTER	647.83	29.01	31.8
CASE NO. 115	NEWPORT	610.02	28.05	*****
( 0/ 50/ 0)	HAWTHORNE	899.44	42.24	0.0
TEN YR PROD= 540	MC ALESTER	628.91	28.97	32.0
CASE NO. 116	NEWPORT	660.01	28.18	*****
( 0/ 25/100)	HAWTHORNE	954.97	42.33	0.0
TEN YR PROD= 1350	MC ALESTER	679.41	29.09	31.6
CASE NO. 117	NEWPORT	641.28	28.12	*****
( 0/ 25/ 75)	HAWTHORNE	934.16	42.29	0.0
TEN YR PROD= 1080	MC ALESTER	660.49	29.04	31.7
CASE NO. 118	NEWPORT	622.55	28.07	*****
( 0/ 25/ 50)	HAWTHORNE	913.36	42.25	0.0
TEN YR PROD= 810	MC ALESTER	641.57	28.99	31.9
CASE NO. 119	NEWPORT	603.82	28.04	*****
( 0/ 25/ 25)	HAWTHORNE	892.55	42.23	0.0
TEN YR PROD= 540	MC ALESTER	622.65	28.96	32.0
CASE NO. 120	NEWPORT	585.09	28.02	*****
( 0/ 25/ 0)	HAWTHORNE	871.74	42.21	0.0
TEN YR PROD= 270	MC ALESTER	603.73	28.94	32.2

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 5%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 121	NEWPORT	635.08	28.10	*****
( 0/ 0/100)	HAWTHORNE	927.28	42.28	0.0
TEN YR PROD= 1080	MC ALESTER	654.23	29.02	31.8
CASE NO. 122	NEWPORT	616.35	28.06	*****
( 0/ 0/ 75)	HAWTHORNE	906.47	42.24	0.0
TEN YR PROD= 810	MC ALESTER	635.31	28.98	31.9
CASE NO. 123	NEWPORT	591.62	28.03	*****
( 0/ 0/ 50)	HAWTHORNE	885.66	42.22	0.0
TEN YR PROD= 540	MC ALESTER	616.39	28.95	32.1
CASE NO. 124	NEWPORT	578.89	28.01	*****
( 0/ 0/ 25)	HAWTHORNE	864.86	42.21	0.0
TEN YR PROD= 270	MC ALESTER	597.47	28.93	32.2
CASE NO. 125	NEWPORT	560.16	28.01	*****
( 0/ 0/ 0)	HAWTHORNE	844.05	42.20	0.0
TEN YR PROD= 0	MC ALESTER	578.55	28.93	32.4

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RDX - HMX SITE SELECTION  
FOUR LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS

CONST= 0%, MTL= 0% UTIL= 0%, LBR= 5%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 1	NEWPORT	920.32	30.15	*****
(100/100/100)	HAWTHORNE	1244.79	43.87	0.0
TEN YR PROD= 3600	MC ALESTER	942.96	31.03	30.0
CASE NO. 2	NEWPORT	901.62	29.94	*****
(100/100/ 75)	HAWTHORNE	1223.99	43.71	0.0
TEN YR PROD= 3330	MC ALESTER	924.04	30.83	30.1
CASE NO. 3	NEWPORT	882.92	29.74	*****
(100/100/ 50)	HAWTHORNE	1203.18	43.55	0.0
TEN YR PROD= 3060	MC ALESTER	905.12	30.63	30.2
CASE NO. 4	NEWPORT	864.22	29.55	*****
(100/100/ 25)	HAWTHORNE	1182.37	43.40	0.0
TEN YR PROD= 2790	MC ALESTER	886.20	30.44	30.2
CASE NO. 5	NEWPORT	845.52	29.37	*****
(100/100/ 0)	HAWTHORNE	1161.57	43.26	0.0
TEN YR PROD= 2520	MC ALESTER	867.28	30.27	30.3
CASE NO. 6	NEWPORT	895.43	29.87	*****
(100/ 75/100)	HAWTHORNE	1217.10	43.65	0.0
TEN YR PROD= 3330	MC ALESTER	917.78	30.76	30.1
CASE NO. 7	NEWPORT	876.73	29.68	*****
(100/ 75/ 75)	HAWTHORNE	1196.29	43.50	0.0
TEN YR PROD= 3060	MC ALESTER	898.86	30.57	30.2
CASE NO. 8	NEWPORT	858.03	29.49	*****
(100/ 75/ 50)	HAWTHORNE	1175.49	43.35	0.0
TEN YR PROD= 2790	MC ALESTER	879.94	30.38	30.2
CASE NO. 9	NEWPORT	839.33	29.31	*****
(100/ 75/ 25)	HAWTHORNE	1154.68	43.21	0.0
TEN YR PROD= 2520	MC ALESTER	861.02	30.21	30.3
CASE NO. 10	NEWPORT	820.63	29.15	*****
(100/ 75/ 0)	HAWTHORNE	1133.87	43.08	0.0
TEN YR PROD= 2250	MC ALESTER	842.10	30.05	30.4

DATE: 16 JAN 75

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ROX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 0%, LBR= 5%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 11	NEWPORT	870.54	29.61	*****
(100/ 50/100)	HAWTHORNE	1189.41	43.45	0.0
TEN YR PROD= 3060	MC ALESTER	892.59	30.50	30.2
CASE NO. 12	NEWPORT	851.84	29.43	*****
(100/ 50/ 75)	HAWTHORNE	1168.60	43.31	0.0
TEN YR PROD= 2790	MC ALESTER	873.67	30.32	30.3
CASE NO. 13	NEWPORT	833.14	29.26	*****
(100/ 50/ 50)	HAWTHORNE	1147.79	43.17	0.0
TEN YR PROD= 2520	MC ALESTER	854.75	30.15	30.4
CASE NO. 14	NEWPORT	814.44	29.10	*****
(100/ 50/ 25)	HAWTHORNE	1126.99	43.04	0.0
TEN YR PROD= 2250	MC ALESTER	835.83	30.00	30.4
CASE NO. 15	NEWPORT	795.75	28.94	*****
(100/ 50/ 0)	HAWTHORNE	1106.18	42.93	0.0
TEN YR PROD= 1980	MC ALESTER	816.91	29.85	30.5
CASE NO. 16	NEWPORT	845.65	29.37	*****
(100/ 25/100)	HAWTHORNE	1161.71	43.26	0.0
TEN YR PROD= 2790	MC ALESTER	867.41	30.27	30.3
CASE NO. 17	NEWPORT	826.95	29.20	*****
(100/ 25/ 75)	HAWTHORNE	1140.91	43.13	0.0
TEN YR PROD= 2520	MC ALESTER	848.49	30.10	30.4
CASE NO. 18	NEWPORT	808.26	29.04	*****
(100/ 25/ 50)	HAWTHORNE	1120.10	43.00	0.0
TEN YR PROD= 2250	MC ALESTER	829.57	29.94	30.5
CASE NO. 19	NEWPORT	789.56	28.90	*****
(100/ 25/ 25)	HAWTHORNE	1099.29	42.89	0.0
TEN YR PROD= 1980	MC ALESTER	810.65	29.80	30.6
CASE NO. 20	NEWPORT	770.86	28.76	*****
(100/ 25/ 0)	HAWTHORNE	1078.49	42.78	0.0
TEN YR PROD= 1710	MC ALESTER	791.73	29.66	30.7

RDX - HMX SITE SELECTION  
FOUR LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTLS= 0%, LBR= 5%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 21	NEWPORT	820.76	29.15	*****
(100/ 0/100)	HAWTHORNE	1134.02	43.09	0.0
TEN YR PROD= 2520	MC ALESTER	842.23	30.05	30.4
CASE NO. 22	NEWPORT	802.07	28.99	*****
(100/ 0/ 75)	HAWTHORNE	1113.21	42.96	0.0
TEN YR PROD= 2250	MC ALESTER	823.31	29.90	30.5
CASE NO. 23	NEWPORT	783.37	28.85	*****
(100/ 0/ 50)	HAWTHORNE	1092.41	42.85	0.0
TEN YR PROD= 1980	MC ALESTER	804.39	29.75	30.6
CASE NO. 24	NEWPORT	764.67	28.72	*****
(100/ 0/ 25)	HAWTHORNE	1071.60	42.75	0.0
TEN YR PROD= 1710	MC ALESTER	785.47	29.62	30.7
CASE NO. 25	NEWPORT	745.97	28.59	*****
(100/ 0/ 0)	HAWTHORNE	1050.79	42.65	0.0
TEN YR PROD= 1440	MC ALESTER	766.55	29.50	30.8
CASE NO. 26	NEWPORT	873.87	29.65	*****
( 75/100/100)	HAWTHORNE	1193.11	43.48	0.0
TEN YR PROD= 3240	MC ALESTER	895.96	30.54	30.2
CASE NO. 27	NEWPORT	855.17	29.46	*****
( 75/100/ 75)	HAWTHORNE	1172.30	43.33	0.0
TEN YR PROD= 2970	MC ALESTER	877.04	30.36	30.3
CASE NO. 28	NEWPORT	836.47	29.29	*****
( 75/100/ 50)	HAWTHORNE	1151.49	43.19	0.0
TEN YR PROD= 2700	MC ALESTER	858.12	30.18	30.3
CASE NO. 29	NEWPORT	817.77	29.12	*****
( 75/100/ 25)	HAWTHORNE	1130.69	43.07	0.0
TEN YR PROD= 2430	MC ALESTER	839.20	30.02	30.4
CASE NO. 30	NEWPORT	799.07	28.97	*****
( 75/100/ 0)	HAWTHORNE	1109.88	42.95	0.0
TEN YR PROD= 2160	MC ALESTER	820.28	29.87	30.5



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTLS= 0%, LBR= 5%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 31	NEWPORT	848.98	29.40	*****
( 75/ 75/100)	HAWTHORNE	1165.41	43.28	0.0
TEN YR PROD= 2970	MC ALESTER	870.78	30.30	30.3
CASE NO. 32	NEWPORT	830.28	29.23	*****
( 75/ 75/ 75)	HAWTHORNE	1144.61	43.15	0.0
TEN YR PROD= 2700	MC ALESTER	851.86	30.13	30.4
CASE NO. 33	NEWPORT	811.58	29.07	*****
( 75/ 75/ 50)	HAWTHORNE	1123.80	43.02	0.0
TEN YR PROD= 2430	MC ALESTER	832.94	29.97	30.5
CASE NO. 34	NEWPORT	792.88	28.92	*****
( 75/ 75/ 25)	HAWTHORNE	1102.99	42.91	0.0
TEN YR PROD= 2160	MC ALESTER	814.02	29.82	30.5
CASE NO. 35	NEWPORT	774.18	28.78	*****
( 75/ 75/ 0)	HAWTHORNE	1082.19	42.80	0.0
TEN YR PROD= 1890	MC ALESTER	795.10	29.69	30.7
CASE NO. 36	NEWPORT	824.09	29.18	*****
( 75/ 50/100)	HAWTHORNE	1137.72	43.11	0.0
TEN YR PROD= 2700	MC ALESTER	845.59	30.08	30.4
CASE NO. 37	NEWPORT	805.39	29.02	*****
( 75/ 50/ 75)	HAWTHORNE	1116.91	42.99	0.0
TEN YR PROD= 2430	MC ALESTER	826.67	29.92	30.5
CASE NO. 38	NEWPORT	786.69	28.88	*****
( 75/ 50/ 50)	HAWTHORNE	1096.11	42.87	0.0
TEN YR PROD= 2160	MC ALESTER	807.75	29.78	30.6
CASE NO. 39	NEWPORT	767.99	28.74	*****
( 75/ 50/ 25)	HAWTHORNE	1075.30	42.77	0.0
TEN YR PROD= 1890	MC ALESTER	788.83	29.65	30.7
CASE NO. 40	NEWPORT	749.29	28.62	*****
( 75/ 50/ 0)	HAWTHORNE	1054.49	42.67	0.0
TEN YR PROD= 1620	MC ALESTER	769.91	29.52	30.8

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 0%, LBR= 5%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 41	NEWPORT	799.20	28.97	*****
( 75/ 25/100)	HAWTHORNE	1110.03	42.95	0.0
TEN YR PROD= 2430	MC ALESTER	820.41	29.87	30.5
CASE NO. 42	NEWPORT	780.50	28.83	*****
( 75/ 25/ 75)	HAWTHORNE	1089.22	42.84	0.0
TEN YR PROD= 2160	MC ALESTER	801.49	29.73	30.6
CASE NO. 43	NEWPORT	761.80	28.70	*****
( 75/ 25/ 50)	HAWTHORNE	1068.41	42.73	0.0
TEN YR PROD= 1890	MC ALESTER	782.57	29.60	30.7
CASE NO. 44	NEWPORT	743.10	28.58	*****
( 75/ 25/ 25)	HAWTHORNE	1047.61	42.64	0.0
TEN YR PROD= 1620	MC ALESTER	763.65	29.48	30.8
CASE NO. 45	NEWPORT	724.40	28.47	*****
( 75/ 25/ 0)	HAWTHORNE	1026.80	42.56	0.0
TEN YR PROD= 1350	MC ALESTER	744.73	29.38	31.0
CASE NO. 46	NEWPORT	774.31	28.78	*****
( 75/ 0/100)	HAWTHORNE	1082.33	42.80	0.0
TEN YR PROD= 2160	MC ALESTER	795.23	29.69	30.7
CASE NO. 47	NEWPORT	755.61	28.66	*****
( 75/ 0/ 75)	HAWTHORNE	1061.53	42.70	0.0
TEN YR PROD= 1890	MC ALESTER	776.31	29.56	30.8
CASE NO. 48	NEWPORT	736.91	28.54	*****
( 75/ 0/ 50)	HAWTHORNE	1040.72	42.61	0.0
TEN YR PROD= 1620	MC ALESTER	757.39	29.45	30.9
CASE NO. 49	NEWPORT	718.22	28.43	*****
( 75/ 0/ 25)	HAWTHORNE	1019.91	42.53	0.0
TEN YR PROD= 1350	MC ALESTER	738.47	29.34	31.0
CASE NO. 50	NEWPORT	699.52	28.34	*****
( 75/ 0/ 0)	HAWTHORNE	999.11	42.46	0.0
TEN YR PROD= 1080	MC ALESTER	719.55	29.25	31.1



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTLS= 0%, LBR= 5%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 51	NEWPORT	827.42	29.21	*****
( 50/100/100)	HAWTHORNE	1141.42	43.13	0.0
TEN YR PROD= 2880	MC ALESTER	848.96	30.10	30.4
CASE NO. 52	NEWPORT	808.72	29.05	*****
( 50/100/ 75)	HAWTHORNE	1120.62	43.01	0.0
TEN YR PROD= 2610	MC ALESTER	830.04	29.95	30.5
CASE NO. 53	NEWPORT	790.02	28.90	*****
( 50/100/ 50)	HAWTHORNE	1099.81	42.89	0.0
TEN YR PROD= 2340	MC ALESTER	811.12	29.80	30.6
CASE NO. 54	NEWPORT	771.32	28.76	*****
( 50/100/ 25)	HAWTHORNE	1079.00	42.78	0.0
TEN YR PROD= 2070	MC ALESTER	792.20	29.67	30.7
CASE NO. 55	NEWPORT	752.62	28.64	*****
( 50/100/ 0)	HAWTHORNE	1058.20	42.69	0.0
TEN YR PROD= 1800	MC ALESTER	773.28	29.54	30.8
CASE NO. 56	NEWPORT	802.53	29.00	*****
( 50/ 75/100)	HAWTHORNE	1113.73	42.97	0.0
TEN YR PROD= 2610	MC ALESTER	823.78	29.90	30.5
CASE NO. 57	NEWPORT	783.83	28.85	*****
( 50/ 75/ 75)	HAWTHORNE	1092.92	42.85	0.0
TEN YR PROD= 2340	MC ALESTER	804.86	29.76	30.6
CASE NO. 58	NEWPORT	765.13	28.72	*****
( 50/ 75/ 50)	HAWTHORNE	1072.12	42.75	0.0
TEN YR PROD= 2070	MC ALESTER	785.94	29.63	30.7
CASE NO. 59	NEWPORT	746.43	28.60	*****
( 50/ 75/ 25)	HAWTHORNE	1051.31	42.66	0.0
TEN YR PROD= 1800	MC ALESTER	767.02	29.51	30.8
CASE NO. 60	NEWPORT	727.73	28.49	*****
( 50/ 75/ 0)	HAWTHORNE	1030.50	42.57	0.0
TEN YR PROD= 1530	MC ALESTER	748.10	29.40	30.9

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTLS= 0%, LBR= 5%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 61	NEWPORT	777.64	28.81	*****
( 50/ 50/100)	HAWTHORNE	1086.03	42.82	0.0
TEN YR PROD= 2340	MC ALESTER	798.60	29.71	30.6
CASE NO. 62	NEWPORT	758.94	28.68	*****
( 50/ 50/ 75)	HAWTHORNE	1065.23	42.72	0.0
TEN YR PROD= 2070	MC ALESTER	779.67	29.58	30.7
CASE NO. 63	NEWPORT	740.24	28.56	*****
( 50/ 50/ 50)	HAWTHORNE	1044.42	42.63	0.0
TEN YR PROD= 1800	MC ALESTER	760.75	29.47	30.9
CASE NO. 64	NEWPORT	721.54	28.45	*****
( 50/ 50/ 25)	HAWTHORNE	1023.61	42.54	0.0
TEN YR PROD= 1530	MC ALESTER	741.83	29.36	31.0
CASE NO. 65	NEWPORT	702.84	28.36	*****
( 50/ 50/ 0)	HAWTHORNE	1002.81	42.47	0.0
TEN YR PROD= 1260	MC ALESTER	722.91	29.27	31.1
CASE NO. 66	NEWPORT	752.75	28.64	*****
( 50/ 25/100)	HAWTHORNE	1058.34	42.69	0.0
TEN YR PROD= 2070	MC ALESTER	773.41	29.54	30.8
CASE NO. 67	NEWPORT	734.05	28.52	*****
( 50/ 25/ 75)	HAWTHORNE	1037.53	42.60	0.0
TEN YR PROD= 1800	MC ALESTER	754.49	29.43	30.9
CASE NO. 68	NEWPORT	715.35	28.42	*****
( 50/ 25/ 50)	HAWTHORNE	1016.73	42.52	0.0
TEN YR PROD= 1530	MC ALESTER	735.57	29.33	31.0
CASE NO. 69	NEWPORT	696.65	28.33	*****
( 50/ 25/ 25)	HAWTHORNE	995.92	42.45	0.0
TEN YR PROD= 1260	MC ALESTER	716.65	29.24	31.2
CASE NO. 70	NEWPORT	677.95	28.25	*****
( 50/ 25/ 0)	HAWTHORNE	975.11	42.38	0.0
TEN YR PROD= 990	MC ALESTER	697.73	29.16	31.3

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 0%, LBR= 5%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 71	NEWPORT	727.86	28.49	*****
( 50/ 0/100)	HAWTHORNE	1030.65	42.57	0.0
TEN YR PROD= 1800	MC ALESTER	748.23	29.40	30.9
CASE NO. 72	NEWPORT	709.16	28.39	*****
( 50/ 0/ 75)	HAWTHORNE	1009.84	42.49	0.0
TEN YR PROD= 1530	MC ALESTER	729.31	29.30	31.1
CASE NO. 73	NEWPORT	690.46	28.30	*****
( 50/ 0/ 50)	HAWTHORNE	989.03	42.42	0.0
TEN YR PROD= 1260	MC ALESTER	710.39	29.21	31.2
CASE NO. 74	NEWPORT	671.16	28.22	*****
( 50/ 0/ 25)	HAWTHORNE	968.23	42.37	0.0
TEN YR PROD= 990	MC ALESTER	691.47	29.14	31.4
CASE NO. 75	NEWPORT	653.06	28.16	*****
( 50/ 0/ 0)	HAWTHORNE	947.42	42.32	0.0
TEN YR PROD= 720	MC ALESTER	672.55	29.07	31.5
CASE NO. 76	NEWPORT	780.97	28.83	*****
( 25/100/100)	HAWTHORNE	1089.74	42.84	0.0
TEN YR PROD= 2520	MC ALESTER	801.96	29.74	30.6
CASE NO. 77	NEWPORT	762.27	28.70	*****
( 25/100/ 75)	HAWTHORNE	1068.93	42.74	0.0
TEN YR PROD= 2250	MC ALESTER	783.04	29.61	30.7
CASE NO. 78	NEWPORT	743.57	28.58	*****
( 25/100/ 50)	HAWTHORNE	1048.12	42.64	0.0
TEN YR PROD= 1980	MC ALESTER	764.12	29.49	30.8
CASE NO. 79	NEWPORT	724.87	28.47	*****
( 25/100/ 25)	HAWTHORNE	1027.32	42.56	0.0
TEN YR PROD= 1710	MC ALESTER	745.20	29.38	31.0
CASE NO. 80	NEWPORT	706.17	28.37	*****
( 25/100/ 0)	HAWTHORNE	1006.51	42.48	0.0
TEN YR PROD= 1440	MC ALESTER	726.28	29.28	31.1



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTLS= 0%, LBR= 5%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 81	NEWPORT	756.08	28.66	*****
( 25/ 75/100)	HAWTHORNE	1062.04	42.70	0.0
TEN YR PROD= 2250	MC ALESTER	776.78	29.57	30.8
CASE NO. 82	NEWPORT	737.38	28.54	*****
( 25/ 75/ 75)	HAWTHORNE	1041.24	42.61	0.0
TEN YR PROD= 1980	MC ALESTER	757.86	29.45	30.9
CASE NO. 83	NEWPORT	718.68	28.44	*****
( 25/ 75/ 50)	HAWTHORNE	1020.43	42.53	0.0
TEN YR PROD= 1710	MC ALESTER	738.94	29.35	31.0
CASE NO. 84	NEWPORT	699.98	28.34	*****
( 25/ 75/ 25)	HAWTHORNE	999.62	42.46	0.0
TEN YR PROD= 1440	MC ALESTER	720.02	29.25	31.1
CASE NO. 85	NEWPORT	681.28	28.26	*****
( 25/ 75/ 0)	HAWTHORNE	978.82	42.39	0.0
TEN YR PROD= 1170	MC ALESTER	701.10	29.17	31.3
CASE NO. 86	NEWPORT	731.19	28.51	*****
( 25/ 50/100)	HAWTHORNE	1034.35	42.58	0.0
TEN YR PROD= 1980	MC ALESTER	751.60	29.42	30.9
CASE NO. 87	NEWPORT	712.49	28.40	*****
( 25/ 50/ 75)	HAWTHORNE	1013.54	42.51	0.0
TEN YR PROD= 1710	MC ALESTER	732.68	29.32	31.0
CASE NO. 88	NEWPORT	693.79	28.31	*****
( 25/ 50/ 50)	HAWTHORNE	992.74	42.44	0.0
TEN YR PROD= 1440	MC ALESTER	713.75	29.23	31.2
CASE NO. 89	NEWPORT	675.09	28.23	*****
( 25/ 50/ 25)	HAWTHORNE	971.93	42.38	0.0
TEN YR PROD= 1170	MC ALESTER	694.83	29.15	31.3
CASE NO. 90	NEWPORT	656.39	28.17	*****
( 25/ 50/ 0)	HAWTHORNE	951.12	42.32	0.0
TEN YR PROD= 900	MC ALESTER	675.91	29.08	31.5

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 0%, LBR= 5%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 91	NEWPORT	706.30	28.37	*****
( 25/ 25/100)	HAWTHORNE	1006.66	42.48	0.0
TEN YR PROD= 1710	MC ALESTER	726.41	29.28	31.1
CASE NO. 92	NEWPORT	687.60	28.29	*****
( 25/ 25/ 75)	HAWTHORNE	985.85	42.42	0.0
TEN YR PROD= 1440	MC ALESTER	707.49	29.20	31.2
CASE NO. 93	NEWPORT	668.90	28.21	*****
( 25/ 25/ 50)	HAWTHORNE	965.04	42.36	0.0
TEN YR PROD= 1170	MC ALESTER	688.57	29.13	31.4
CASE NO. 94	NEWPORT	650.20	28.15	*****
( 25/ 25/ 25)	HAWTHORNE	944.24	42.31	0.0
TEN YR PROD= 900	MC ALESTER	669.65	29.06	31.5
CASE NO. 95	NEWPORT	631.50	28.10	*****
( 25/ 25/ 0)	HAWTHORNE	923.43	42.27	0.0
TEN YR PROD= 630	MC ALESTER	650.73	29.01	31.7
CASE NO. 96	NEWPORT	681.41	28.26	*****
( 25/ 0/100)	HAWTHORNE	978.96	42.40	0.0
TEN YR PROD= 1440	MC ALESTER	701.23	29.17	31.3
CASE NO. 97	NEWPORT	662.71	28.19	*****
( 25/ 0/ 75)	HAWTHORNE	958.16	42.34	0.0
TEN YR PROD= 1170	MC ALESTER	682.31	29.10	31.4
CASE NO. 98	NEWPORT	644.01	28.13	*****
( 25/ 0/ 50)	HAWTHORNE	937.35	42.29	0.0
TEN YR PROD= 900	MC ALESTER	663.39	29.05	31.6
CASE NO. 99	NEWPORT	625.31	28.08	*****
( 25/ 0/ 25)	HAWTHORNE	916.54	42.26	0.0
TEN YR PROD= 630	MC ALESTER	644.47	29.00	31.8
CASE NO. 100	NEWPORT	606.61	28.05	*****
( 25/ 0/ 0)	HAWTHORNE	895.74	42.23	0.0
TEN YR PROD= 360	MC ALESTER	625.55	28.96	31.9



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTLS= 0%, LBR= 5%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 101	NEWPORT	734.52	28.52	*****
( 0/100/100)	HAWTHORNE	1038.05	42.60	0.0
TEN YR PROD= 2160	MC ALESTER	754.96	29.43	30.9
CASE NO. 102	NEWPORT	715.82	28.42	*****
( 0/100/ 75)	HAWTHORNE	1017.24	42.52	0.0
TEN YR PROD= 1890	MC ALESTER	736.04	29.33	31.0
CASE NO. 103	NEWPORT	697.12	28.33	*****
( 0/100/ 50)	HAWTHORNE	996.44	42.45	0.0
TEN YR PROD= 1620	MC ALESTER	717.12	29.24	31.2
CASE NO. 104	NEWPORT	678.42	28.25	*****
( 0/100/ 25)	HAWTHORNE	975.63	42.39	0.0
TEN YR PROD= 1350	MC ALESTER	698.20	29.16	31.3
CASE NO. 105	NEWPORT	659.72	28.18	*****
( 0/100/ 0)	HAWTHORNE	954.83	42.33	0.0
TEN YR PROD= 1080	MC ALESTER	679.28	29.09	31.5
CASE NO. 106	NEWPORT	709.63	28.39	*****
( 0/ 75/100)	HAWTHORNE	1010.36	42.49	0.0
TEN YR PROD= 1890	MC ALESTER	729.78	29.30	31.1
CASE NO. 107	NEWPORT	690.93	28.30	*****
( 0/ 75/ 75)	HAWTHORNE	989.55	42.43	0.0
TEN YR PROD= 1620	MC ALESTER	710.86	29.21	31.2
CASE NO. 108	NEWPORT	672.23	28.22	*****
( 0/ 75/ 50)	HAWTHORNE	968.74	42.37	0.0
TEN YR PROD= 1350	MC ALESTER	691.94	29.14	31.4
CASE NO. 109	NEWPORT	653.53	28.16	*****
( 0/ 75/ 25)	HAWTHORNE	947.94	42.32	0.0
TEN YR PROD= 1080	MC ALESTER	673.02	29.07	31.5
CASE NO. 110	NEWPORT	634.83	28.10	*****
( 0/ 75/ 0)	HAWTHORNE	927.13	42.28	0.0
TEN YR PROD= 810	MC ALESTER	654.10	29.02	31.7

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTLS= 0%, LBR= 5%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 111	NEWPORT	684.74	28.27	*****
( 0/ 50/100)	HAWTHORNE	982.66	42.41	0.0
TEN YR PROD= 1620	MC ALESTER	704.60	29.19	31.3
CASE NO. 112	NEWPORT	666.04	28.20	*****
( 0/ 50/ 75)	HAWTHORNE	961.86	42.35	0.0
TEN YR PROD= 1350	MC ALESTER	685.68	29.12	31.4
CASE NO. 113	NEWPORT	647.34	28.14	*****
( 0/ 50/ 50)	HAWTHORNE	941.05	42.30	0.0
TEN YR PROD= 1080	MC ALESTER	666.75	29.05	31.6
CASE NO. 114	NEWPORT	628.64	28.09	*****
( 0/ 50/ 25)	HAWTHORNE	920.24	42.26	0.0
TEN YR PROD= 810	MC ALESTER	647.83	29.01	31.7
CASE NO. 115	NEWPORT	609.94	28.05	*****
( 0/ 50/ 0)	HAWTHORNE	899.44	42.24	0.0
TEN YR PROD= 540	MC ALESTER	628.91	28.97	31.9
CASE NO. 116	NEWPORT	659.85	28.18	*****
( 0/ 25/100)	HAWTHORNE	954.97	42.33	0.0
TEN YR PROD= 1350	MC ALESTER	679.41	29.09	31.5
CASE NO. 117	NEWPORT	641.15	28.12	*****
( 0/ 25/ 75)	HAWTHORNE	934.16	42.29	0.0
TEN YR PROD= 1080	MC ALESTER	660.49	29.04	31.6
CASE NO. 118	NEWPORT	622.45	28.07	*****
( 0/ 25/ 50)	HAWTHORNE	913.36	42.25	0.0
TEN YR PROD= 810	MC ALESTER	641.57	28.99	31.8
CASE NO. 119	NEWPORT	603.75	28.04	*****
( 0/ 25/ 25)	HAWTHORNE	892.55	42.23	0.0
TEN YR PROD= 540	MC ALESTER	622.65	28.96	32.0
CASE NO. 120	NEWPORT	585.05	28.02	*****
( 0/ 25/ 0)	HAWTHORNE	871.74	42.21	0.0
TEN YR PROD= 270	MC ALESTER	603.73	28.94	32.1

RDX - HMX SITE SELECTION  
FOUR LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS

CONST= 0%, MTL5= 0% UTL5= 0%, LBR= 5%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 121	NEWPORT	634.96	28.10	*****
( 0/ 0/100)	HAWTHORNE	927.28	42.28	0.0
TEN YR PROD= 1080	MC ALESTER	654.23	29.02	31.7
CASE NO. 122	NEWPORT	616.26	28.06	*****
( 0/ 0/ 75)	HAWTHORNE	906.47	42.24	0.0
TEN YR PROD= 810	MC ALESTER	635.31	28.98	31.8
CASE NO. 123	NEWPORT	597.56	28.03	*****
( 0/ 0/ 50)	HAWTHORNE	885.66	42.22	0.0
TEN YR PROD= 540	MC ALESTER	616.39	28.95	32.0
CASE NO. 124	NEWPORT	578.86	28.01	*****
( 0/ 0/ 25)	HAWTHORNE	864.86	42.21	0.0
TEN YR PROD= 270	MC ALESTER	597.47	28.93	32.2
CASE NO. 125	NEWPORT	560.16	28.01	*****
( 0/ 0/ 0)	HAWTHORNE	844.05	42.20	0.0
TEN YR PROD= 0	MC ALESTER	578.55	28.93	32.4

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RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 5%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 1	NEWPORT	918.97	30.15	*****
(100/100/100)	HAWTHORNE	1244.79	43.87	0.0
TEN YR PROD= 3600	MC ALESTER	942.96	31.03	29.0
CASE NO. 2	NEWPORT	900.34	29.94	*****
(100/100/ 75)	HAWTHORNE	1223.99	43.71	0.0
TEN YR PROD= 3330	MC ALESTER	924.04	30.83	29.1
CASE NO. 3	NEWPORT	881.71	29.74	*****
(100/100/ 50)	HAWTHORNE	1203.18	43.55	0.0
TEN YR PROD= 3060	MC ALESTER	905.12	30.63	29.2
CASE NO. 4	NEWPORT	863.08	29.55	*****
(100/100/ 25)	HAWTHORNE	1182.37	43.40	0.0
TEN YR PROD= 2790	MC ALESTER	886.20	30.44	29.3
CASE NO. 5	NEWPORT	844.46	29.37	*****
(100/100/ 0)	HAWTHORNE	1161.57	43.26	0.0
TEN YR PROD= 2520	MC ALESTER	867.28	30.27	29.4
CASE NO. 6	NEWPORT	894.18	29.87	*****
(100/ 75/100)	HAWTHORNE	1217.10	43.65	0.0
TEN YR PROD= 3330	MC ALESTER	917.78	30.76	29.1
CASE NO. 7	NEWPORT	875.55	29.67	*****
(100/ 75/ 75)	HAWTHORNE	1196.29	43.50	0.0
TEN YR PROD= 3060	MC ALESTER	898.86	30.57	29.2
CASE NO. 8	NEWPORT	856.92	29.49	*****
(100/ 75/ 50)	HAWTHORNE	1175.49	43.35	0.0
TEN YR PROD= 2790	MC ALESTER	879.94	30.38	29.3
CASE NO. 9	NEWPORT	838.29	29.31	*****
(100/ 75/ 25)	HAWTHORNE	1154.68	43.21	0.0
TEN YR PROD= 2520	MC ALESTER	861.02	30.21	29.5
CASE NO. 10	NEWPORT	819.66	29.15	*****
(100/ 75/ 0)	HAWTHORNE	1133.87	43.08	0.0
TEN YR PROD= 2250	MC ALESTER	842.10	30.05	29.6



RDX - HMX SITE SELECTION  
FOUR LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 5%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 11	NEWPORT	869.38	29.61	*****
(100/ 50/100)	HAWTHORNE	1189.41	43.45	0.0
TEN YR PROD= 3060	MC ALESTER	892.59	30.50	29.3
CASE NO. 12	NEWPORT	850.75	29.43	*****
(100/ 50/ 75)	HAWTHORNE	1168.60	43.31	0.0
TEN YR PROD= 2790	MC ALESTER	873.67	30.32	29.4
CASE NO. 13	NEWPORT	832.12	29.26	*****
(100/ 50/ 50)	HAWTHORNE	1147.79	43.17	0.0
TEN YR PROD= 2520	MC ALESTER	854.75	30.15	29.5
CASE NO. 14	NEWPORT	813.49	29.09	*****
(100/ 50/ 25)	HAWTHORNE	1126.99	43.04	0.0
TEN YR PROD= 2250	MC ALESTER	835.83	30.00	29.6
CASE NO. 15	NEWPORT	794.86	28.94	*****
(100/ 50/ 0)	HAWTHORNE	1106.18	42.93	0.0
TEN YR PROD= 1980	MC ALESTER	816.91	29.85	29.8
CASE NO. 16	NEWPORT	844.58	29.37	*****
(100/ 25/100)	HAWTHORNE	1161.71	43.26	0.0
TEN YR PROD= 2790	MC ALESTER	867.41	30.27	29.4
CASE NO. 17	NEWPORT	825.96	29.20	*****
(100/ 25/ 75)	HAWTHORNE	1140.91	43.13	0.0
TEN YR PROD= 2520	MC ALESTER	848.49	30.10	29.6
CASE NO. 18	NEWPORT	807.33	29.04	*****
(100/ 25/ 50)	HAWTHORNE	1120.10	43.00	0.0
TEN YR PROD= 2250	MC ALESTER	829.57	29.94	29.7
CASE NO. 19	NEWPORT	788.70	28.89	*****
(100/ 25/ 25)	HAWTHORNE	1099.29	42.89	0.0
TEN YR PROD= 1980	MC ALESTER	810.65	29.80	29.8
CASE NO. 20	NEWPORT	770.07	28.76	*****
(100/ 25/ 0)	HAWTHORNE	1078.49	42.78	0.0
TEN YR PROD= 1710	MC ALESTER	791.73	29.66	30.0

RDX - HMX SITE SELECTION  
FOUR LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTLs= 0% UTLS= 0%, LBR= 0%, TRANS= 5%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 21	NEWPORT	819.79	29.15	*****
(100/ 0/100)	HAWTHORNE	1134.02	43.09	0.0
TEN YR PROD= 2520	MC ALESTER	842.23	30.05	29.6
CASE NO. 22	NEWPORT	801.16	28.99	*****
(100/ 0/ 75)	HAWTHORNE	1113.21	42.96	0.0
TEN YR PROD= 2250	MC ALESTER	823.31	29.90	29.7
CASE NO. 23	NEWPORT	782.53	28.85	*****
(100/ 0/ 50)	HAWTHORNE	1092.41	42.85	0.0
TEN YR PROD= 1980	MC ALESTER	804.39	29.75	29.9
CASE NO. 24	NEWPORT	763.90	28.71	*****
(100/ 0/ 25)	HAWTHORNE	1071.60	42.75	0.0
TEN YR PROD= 1710	MC ALESTER	785.47	29.62	30.1
CASE NO. 25	NEWPORT	745.27	28.59	*****
(100/ 0/ 0)	HAWTHORNE	1050.79	42.65	0.0
TEN YR PROD= 1440	MC ALESTER	766.55	29.50	30.2
CASE NO. 26	NEWPORT	872.70	29.64	*****
( 75/100/100)	HAWTHORNE	1193.11	43.48	0.0
TEN YR PROD= 3240	MC ALESTER	895.96	30.54	29.2
CASE NO. 27	NEWPORT	854.07	29.46	*****
( 75/100/ 75)	HAWTHORNE	1172.30	43.33	0.0
TEN YR PROD= 2970	MC ALESTER	877.04	30.36	29.4
CASE NO. 28	NEWPORT	835.44	29.29	*****
( 75/100/ 50)	HAWTHORNE	1151.49	43.19	0.0
TEN YR PROD= 2700	MC ALESTER	858.12	30.18	29.5
CASE NO. 29	NEWPORT	816.81	29.12	*****
( 75/100/ 25)	HAWTHORNE	1130.69	43.07	0.0
TEN YR PROD= 2430	MC ALESTER	839.20	30.02	29.6
CASE NO. 30	NEWPORT	798.18	28.97	*****
( 75/100/ 0)	HAWTHORNE	1109.88	42.95	0.0
TEN YR PROD= 2160	MC ALESTER	820.28	29.87	29.8

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 5%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 31	NEWPORT	847.90	29.40	*****
( 75/ 75/100)	HAWTHORNE	1165.41	43.28	0.0
TEN YR PROD= 2970	MC ALESTER	870.78	30.30	29.4
CASE NO. 32	NEWPORT	829.27	29.23	*****
( 75/ 75/ 75)	HAWTHORNE	1144.61	43.15	0.0
TEN YR PROD= 2700	MC ALESTER	851.86	30.13	29.5
CASE NO. 33	NEWPORT	810.64	29.07	*****
( 75/ 75/ 50)	HAWTHORNE	1123.80	43.02	0.0
TEN YR PROD= 2430	MC ALESTER	832.94	29.97	29.7
CASE NO. 34	NEWPORT	792.01	28.92	*****
( 75/ 75/ 25)	HAWTHORNE	1102.99	42.91	0.0
TEN YR PROD= 2160	MC ALESTER	814.02	29.82	29.8
CASE NO. 35	NEWPORT	773.38	28.78	*****
( 75/ 75/ 0)	HAWTHORNE	1082.19	42.80	0.0
TEN YR PROD= 1890	MC ALESTER	795.10	29.69	30.0
CASE NO. 36	NEWPORT	823.10	29.18	*****
( 75/ 50/100)	HAWTHORNE	1137.72	43.11	0.0
TEN YR PROD= 2700	MC ALESTER	845.59	30.08	29.6
CASE NO. 37	NEWPORT	804.47	29.02	*****
( 75/ 50/ 75)	HAWTHORNE	1116.91	42.99	0.0
TEN YR PROD= 2430	MC ALESTER	826.67	29.92	29.7
CASE NO. 38	NEWPORT	785.84	28.87	*****
( 75/ 50/ 50)	HAWTHORNE	1096.11	42.87	0.0
TEN YR PROD= 2160	MC ALESTER	807.75	29.78	29.9
CASE NO. 39	NEWPORT	767.22	28.74	*****
( 75/ 50/ 25)	HAWTHORNE	1075.30	42.77	0.0
TEN YR PROD= 1890	MC ALESTER	788.83	29.65	30.0
CASE NO. 40	NEWPORT	748.59	28.61	*****
( 75/ 50/ 0)	HAWTHORNE	1054.49	42.67	0.0
TEN YR PROD= 1620	MC ALESTER	769.91	29.52	30.2

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 5%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 41	NEWPORT	798.31	28.97	****
( 75/ 25/100)	HAWTHORNE	1110.03	42.95	0.0
TEN YR PROD= 2430	MC ALESTER	820.41	29.87	29.8
CASE NO. 42	NEWPORT	779.68	28.83	****
( 75/ 25/ 75)	HAWTHORNE	1089.22	42.84	0.0
TEN YR PROD= 2160	MC ALESTER	801.49	29.73	29.9
CASE NO. 43	NEWPORT	761.05	28.70	****
( 75/ 25/ 50)	HAWTHORNE	1068.41	42.73	0.0
TEN YR PROD= 1890	MC ALESTER	782.57	29.60	30.1
CASE NO. 44	NEWPORT	742.42	28.58	****
( 75/ 25/ 25)	HAWTHORNE	1047.61	42.64	0.0
TEN YR PROD= 1620	MC ALESTER	763.65	29.48	30.3
CASE NO. 45	NEWPORT	723.79	28.47	****
( 75/ 25/ 0)	HAWTHORNE	1026.80	42.56	0.0
TEN YR PROD= 1350	MC ALESTER	744.73	29.38	30.4
CASE NO. 46	NEWPORT	773.51	28.78	****
( 75/ 0/100)	HAWTHORNE	1082.33	42.80	0.0
TEN YR PROD= 2160	MC ALESTER	795.23	29.69	30.0
CASE NO. 47	NEWPORT	754.88	28.65	****
( 75/ 0/ 75)	HAWTHORNE	1061.53	42.70	0.0
TEN YR PROD= 1890	MC ALESTER	776.31	29.56	30.1
CASE NO. 48	NEWPORT	736.25	28.54	****
( 75/ 0/ 50)	HAWTHORNE	1040.72	42.61	0.0
TEN YR PROD= 1620	MC ALESTER	757.39	29.45	30.3
CASE NO. 49	NEWPORT	717.62	28.43	****
( 75/ 0/ 25)	HAWTHORNE	1019.91	42.53	0.0
TEN YR PROD= 1350	MC ALESTER	738.47	29.34	30.5
CASE NO. 50	NEWPORT	698.99	28.34	****
( 75/ 0/ 0)	HAWTHORNE	999.11	42.46	0.0
TEN YR PROD= 1080	MC ALESTER	719.55	29.25	30.7



RDX - HMX SITE SELECTION  
FOUR LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 5%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 51	NEWPORT	826.42	29.20	*****
( 50/100/100)	HAWTHORNE	1141.42	43.13	0.0
TEN YR PROD= 2880	MC ALESTER	848.96	30.10	29.5
CASE NO. 52	NEWPORT	807.79	29.05	*****
( 50/100/ 75)	HAWTHORNE	1120.62	43.01	0.0
TEN YR PROD= 2610	MC ALESTER	830.04	29.95	29.7
CASE NO. 53	NEWPORT	789.16	28.90	*****
( 50/100/ 50)	HAWTHORNE	1099.81	42.89	0.0
TEN YR PROD= 2340	MC ALESTER	811.12	29.80	29.8
CASE NO. 54	NEWPORT	770.53	28.76	*****
( 50/100/ 25)	HAWTHORNE	1079.00	42.78	0.0
TEN YR PROD= 2070	MC ALESTER	792.20	29.67	30.0
CASE NO. 55	NEWPORT	751.90	28.63	*****
( 50/100/ 0)	HAWTHORNE	1058.20	42.69	0.0
TEN YR PROD= 1800	MC ALESTER	773.28	29.54	30.2
CASE NO. 56	NEWPORT	801.62	29.00	*****
( 50/ 75/100)	HAWTHORNE	1113.73	42.97	0.0
TEN YR PROD= 2610	MC ALESTER	823.78	29.90	29.7
CASE NO. 57	NEWPORT	782.99	28.85	*****
( 50/ 75/ 75)	HAWTHORNE	1092.92	42.85	0.0
TEN YR PROD= 2340	MC ALESTER	804.86	29.76	29.9
CASE NO. 58	NEWPORT	764.36	28.72	*****
( 50/ 75/ 50)	HAWTHORNE	1072.12	42.75	0.0
TEN YR PROD= 2070	MC ALESTER	785.94	29.63	30.1
CASE NO. 59	NEWPORT	745.73	28.60	*****
( 50/ 75/ 25)	HAWTHORNE	1051.31	42.66	0.0
TEN YR PROD= 1800	MC ALESTER	767.02	29.51	30.2
CASE NO. 60	NEWPORT	727.10	28.48	*****
( 50/ 75/ 0)	HAWTHORNE	1030.50	42.57	0.0
TEN YR PROD= 1530	MC ALESTER	748.10	29.40	30.4



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 5%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 61	NEWPORT	776.83	28.81	*****
( 50/ 50/100)	HAWTHORNE	1086.03	42.82	0.0
TEN YR PROD= 2340	MC ALESTER	798.60	29.71	29.9
CASE NO. 62	NEWPORT	758.20	28.68	*****
( 50/ 50/ 75)	HAWTHORNE	1065.23	42.72	0.0
TEN YR PROD= 2070	MC ALESTER	779.67	29.58	30.1
CASE NO. 63	NEWPORT	739.57	28.56	*****
( 50/ 50/ 50)	HAWTHORNE	1044.42	42.63	0.0
TEN YR PROD= 1800	MC ALESTER	760.75	29.47	30.3
CASE NO. 64	NEWPORT	720.94	28.45	*****
( 50/ 50/ 25)	HAWTHORNE	1023.61	42.54	0.0
TEN YR PROD= 1530	MC ALESTER	741.83	29.36	30.5
CASE NO. 65	NEWPORT	702.31	28.35	*****
( 50/ 50/ 0)	HAWTHORNE	1002.81	42.47	0.0
TEN YR PROD= 1260	MC ALESTER	722.91	29.27	30.7
CASE NO. 66	NEWPORT	752.03	28.64	*****
( 50/ 25/100)	HAWTHORNE	1058.34	42.69	0.0
TEN YR PROD= 2070	MC ALESTER	773.41	29.54	30.2
CASE NO. 67	NEWPORT	733.40	28.52	*****
( 50/ 25/ 75)	HAWTHORNE	1037.53	42.60	0.0
TEN YR PROD= 1800	MC ALESTER	754.49	29.43	30.3
CASE NO. 68	NEWPORT	714.77	28.42	*****
( 50/ 25/ 50)	HAWTHORNE	1016.73	42.52	0.0
TEN YR PROD= 1530	MC ALESTER	735.57	29.33	30.5
CASE NO. 69	NEWPORT	696.14	28.33	*****
( 50/ 25/ 25)	HAWTHORNE	995.92	42.45	0.0
TEN YR PROD= 1260	MC ALESTER	716.65	29.24	30.7
CASE NO. 70	NEWPORT	677.51	28.24	*****
( 50/ 25/ 0)	HAWTHORNE	975.11	42.38	0.0
TEN YR PROD= 990	MC ALESTER	697.73	29.16	30.9

ROX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 5%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 71	NEWPORT	727.23	28.49	*****
( 50/ 0/100)	HAWTHORNE	1030.65	42.57	0.0
TEN YR PROD= 1800	MC ALESTER	748.23	29.40	30.4
CASE NO. 72	NEWPORT	708.60	28.39	*****
( 50/ 0/ 75)	HAWTHORNE	1009.84	42.49	0.0
TEN YR PROD= 1530	MC ALESTER	729.31	29.30	30.6
CASE NO. 73	NEWPORT	689.98	28.30	*****
( 50/ 0/ 50)	HAWTHORNE	989.03	42.42	0.0
TEN YR PROD= 1260	MC ALESTER	710.39	29.21	30.8
CASE NO. 74	NEWPORT	671.35	28.22	*****
( 50/ 0/ 25)	HAWTHORNE	968.23	42.37	0.0
TEN YR PROD= 990	MC ALESTER	691.47	29.14	31.0
CASE NO. 75	NEWPORT	652.72	28.16	*****
( 50/ 0/ 0)	HAWTHORNE	947.42	42.32	0.0
TEN YR PROD= 720	MC ALESTER	672.55	29.07	31.2
CASE NO. 76	NEWPORT	780.14	28.83	*****
( 25/100/100)	HAWTHORNE	1089.74	42.84	0.0
TEN YR PROD= 2520	MC ALESTER	801.96	29.74	29.9
CASE NO. 77	NEWPORT	761.51	28.70	*****
( 25/100/ 75)	HAWTHORNE	1068.93	42.74	0.0
TEN YR PROD= 2250	MC ALESTER	783.04	29.61	30.1
CASE NO. 78	NEWPORT	742.88	28.58	*****
( 25/100/ 50)	HAWTHORNE	1048.12	42.64	0.0
TEN YR PROD= 1980	MC ALESTER	764.12	29.49	30.3
CASE NO. 79	NEWPORT	724.25	28.47	*****
( 25/100/ 25)	HAWTHORNE	1027.32	42.56	0.0
TEN YR PROD= 1710	MC ALESTER	745.20	29.38	30.4
CASE NO. 80	NEWPORT	705.62	28.37	*****
( 25/100/ 0)	HAWTHORNE	1006.51	42.48	0.0
TEN YR PROD= 1440	MC ALESTER	726.28	29.28	30.6

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 5%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 81	NEWPORT	755.34	28.66	*****
( 25/ 75/100)	HAWTHORNE	1062.04	42.70	0.0
TEN YR PROD= 2250	MC ALESTER	776.78	29.57	30.1
CASE NO. 82	NEWPORT	736.72	28.54	*****
( 25/ 75/ 75)	HAWTHORNE	1041.24	42.61	0.0
TEN YR PROD= 1980	MC ALESTER	757.86	29.45	30.3
CASE NO. 83	NEWPORT	718.09	28.43	*****
( 25/ 75/ 50)	HAWTHORNE	1020.43	42.53	0.0
TEN YR PROD= 1710	MC ALESTER	738.94	29.35	30.5
CASE NO. 84	NEWPORT	699.46	28.34	*****
( 25/ 75/ 25)	HAWTHORNE	999.62	42.46	0.0
TEN YR PROD= 1440	MC ALESTER	720.02	29.25	30.7
CASE NO. 85	NEWPORT	680.83	28.26	*****
( 25/ 75/ 0)	HAWTHORNE	978.82	42.39	0.0
TEN YR PROD= 1170	MC ALESTER	701.10	29.17	30.9
CASE NO. 86	NEWPORT	730.55	28.50	*****
( 25/ 50/100)	HAWTHORNE	1034.35	42.58	0.0
TEN YR PROD= 1980	MC ALESTER	751.60	29.42	30.4
CASE NO. 87	NEWPORT	711.92	28.40	*****
( 25/ 50/ 75)	HAWTHORNE	1013.54	42.51	0.0
TEN YR PROD= 1710	MC ALESTER	732.68	29.32	30.6
CASE NO. 88	NEWPORT	693.29	28.31	*****
( 25/ 50/ 50)	HAWTHORNE	992.74	42.44	0.0
TEN YR PROD= 1440	MC ALESTER	713.75	29.23	30.8
CASE NO. 89	NEWPORT	674.66	28.23	*****
( 25/ 50/ 25)	HAWTHORNE	971.93	42.38	0.0
TEN YR PROD= 1170	MC ALESTER	694.83	29.15	31.0
CASE NO. 90	NEWPORT	656.03	28.17	*****
( 25/ 50/ 0)	HAWTHORNE	951.12	42.32	0.0
TEN YR PROD= 900	MC ALESTER	675.91	29.08	31.2



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 5%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 91	NEWPORT	705.75	28.37	*****
( 25/ 25/100)	HAWTHORNE	1006.66	42.48	0.0
TEN YR PROD= 1710	MC ALESTER	726.41	29.28	30.6
CASE NO. 92	NEWPORT	687.12	28.28	*****
( 25/ 25/ 75)	HAWTHORNE	985.85	42.42	0.0
TEN YR PROD= 1440	MC ALESTER	707.49	29.20	30.8
CASE NO. 93	NEWPORT	668.49	28.21	*****
( 25/ 25/ 50)	HAWTHORNE	965.04	42.36	0.0
TEN YR PROD= 1170	MC ALESTER	688.57	29.13	31.0
CASE NO. 94	NEWPORT	649.86	28.15	*****
( 25/ 25/ 25)	HAWTHORNE	944.24	42.31	0.0
TEN YR PROD= 900	MC ALESTER	669.65	29.06	31.2
CASE NO. 95	NEWPORT	631.23	28.10	*****
( 25/ 25/ 0)	HAWTHORNE	923.43	42.27	0.0
TEN YR PROD= 630	MC ALESTER	650.73	29.01	31.5
CASE NO. 96	NEWPORT	680.96	28.26	*****
( 25/ 0/100)	HAWTHORNE	978.96	42.40	0.0
TEN YR PROD= 1440	MC ALESTER	701.23	29.17	30.9
CASE NO. 97	NEWPORT	662.33	28.19	*****
( 25/ 0/ 75)	HAWTHORNE	958.16	42.34	0.0
TEN YR PROD= 1170	MC ALESTER	682.31	29.10	31.1
CASE NO. 98	NEWPORT	643.70	28.13	*****
( 25/ 0/ 50)	HAWTHORNE	937.35	42.29	0.0
TEN YR PROD= 900	MC ALESTER	663.39	29.05	31.3
CASE NO. 99	NEWPORT	625.07	28.08	*****
( 25/ 0/ 25)	HAWTHORNE	916.54	42.26	0.0
TEN YR PROD= 630	MC ALESTER	644.47	29.00	31.5
CASE NO. 100	NEWPORT	606.44	28.04	*****
( 25/ 0/ 0)	HAWTHORNE	895.74	42.23	0.0
TEN YR PROD= 360	MC ALESTER	625.55	28.96	31.8

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 5%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 101	NEWPORT	733.86	28.52	*****
( 0/100/100)	HAWTHORNE	1038.05	42.60	0.0
TEN YR PROD= 2160	MC ALESTER	754.96	29.43	30.3
CASE NO. 102	NEWPORT	715.23	28.42	*****
( 0/100/ 75)	HAWTHORNE	1017.24	42.52	0.0
TEN YR PROD= 1890	MC ALESTER	736.04	29.33	30.5
CASE NO. 103	NEWPORT	696.60	28.33	*****
( 0/100/ 50)	HAWTHORNE	996.44	42.45	0.0
TEN YR PROD= 1620	MC ALESTER	717.12	29.24	30.7
CASE NO. 104	NEWPORT	677.98	28.25	*****
( 0/100/ 25)	HAWTHORNE	975.63	42.39	0.0
TEN YR PROD= 1350	MC ALESTER	698.20	29.16	30.9
CASE NO. 105	NEWPORT	659.35	28.18	*****
( 0/100/ 0)	HAWTHORNE	954.83	42.33	0.0
TEN YR PROD= 1080	MC ALESTER	679.28	29.09	31.1
CASE NO. 106	NEWPORT	709.07	28.39	*****
( 0/ 75/100)	HAWTHORNE	1010.36	42.49	0.0
TEN YR PROD= 1890	MC ALESTER	729.78	29.30	30.6
CASE NO. 107	NEWPORT	690.44	28.30	*****
( 0/ 75/ 75)	HAWTHORNE	989.55	42.43	0.0
TEN YR PROD= 1620	MC ALESTER	710.86	29.21	30.8
CASE NO. 108	NEWPORT	671.81	28.22	*****
( 0/ 75/ 50)	HAWTHORNE	968.74	42.37	0.0
TEN YR PROD= 1350	MC ALESTER	691.94	29.14	31.0
CASE NO. 109	NEWPORT	653.18	28.16	*****
( 0/ 75/ 25)	HAWTHORNE	947.94	42.32	0.0
TEN YR PROD= 1080	MC ALESTER	673.02	29.07	31.2
CASE NO. 110	NEWPORT	634.55	28.10	*****
( 0/ 75/ 0)	HAWTHORNE	927.13	42.28	0.0
TEN YR PROD= 810	MC ALESTER	654.10	29.02	31.4



RDX - HMX SITE SELECTION  
FOUR LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 5%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 111	NEWPORT	684.27	28.27	*****
( 0/ 50/100)	HAWTHORNE	982.66	42.41	0.0
TEN YR PROD= 1620	MC ALESTER	704.60	29.19	30.8
CASE NO. 112	NEWPORT	665.64	29.20	*****
( 0/ 50/ 75)	HAWTHORNE	961.86	42.35	0.0
TEN YR PROD= 1350	MC ALESTER	685.68	29.12	31.1
CASE NO. 113	NEWPORT	647.01	28.14	*****
( 0/ 50/ 50)	HAWTHORNE	941.05	42.30	0.0
TEN YR PROD= 1080	MC ALESTER	666.75	29.05	31.3
CASE NO. 114	NEWPORT	628.38	28.09	*****
( 0/ 50/ 25)	HAWTHORNE	920.24	42.26	0.0
TEN YR PROD= 810	MC ALESTER	647.83	29.01	31.5
CASE NO. 115	NEWPORT	609.75	28.05	*****
( 0/ 50/ 0)	HAWTHORNE	899.44	42.24	0.0
TEN YR PROD= 540	MC ALESTER	628.91	29.97	31.7
CASE NO. 116	NEWPORT	659.48	28.18	*****
( 0/ 25/100)	HAWTHORNE	954.97	42.33	0.0
TEN YR PROD= 1350	MC ALESTER	679.41	29.09	31.1
CASE NO. 117	NEWPORT	640.85	28.12	*****
( 0/ 25/ 75)	HAWTHORNE	934.16	42.29	0.0
TEN YR PROD= 1080	MC ALESTER	660.49	29.04	31.3
CASE NO. 118	NEWPORT	622.22	28.07	*****
( 0/ 25/ 50)	HAWTHORNE	913.36	42.25	0.0
TEN YR PROD= 810	MC ALESTER	641.57	28.99	31.6
CASE NO. 119	NEWPORT	603.59	28.04	*****
( 0/ 25/ 25)	HAWTHORNE	892.55	42.23	0.0
TEN YR PROD= 540	MC ALESTER	622.65	28.96	31.8
CASE NO. 120	NEWPORT	584.96	28.02	*****
( 0/ 25/ 0)	HAWTHORNE	871.74	42.21	0.0
TEN YR PROD= 270	MC ALESTER	603.73	28.94	32.1

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTLs= 0% UTLS= 0%, LBR= 0%, TRANS= 5%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 121	NEWPORT	634.68	28.10	*****
( 0/ 0/100)	HAWTHORNE	927.28	42.28	0.0
TEN YR PROD= 1080	MC ALESTER	654.23	29.02	31.4
CASE NO. 122	NEWPORT	616.05	28.06	*****
( 0/ 0/ 75)	HAWTHORNE	906.47	42.24	0.0
TEN YR PROD= 810	MC ALESTER	635.31	28.98	31.7
CASE NO. 123	NEWPORT	597.42	28.03	*****
( 0/ 0/ 50)	HAWTHORNE	885.66	42.22	0.0
TEN YR PROD= 540	MC ALESTER	616.39	28.95	31.9
CASE NO. 124	NEWPORT	578.79	28.01	*****
( 0/ 0/ 25)	HAWTHORNE	864.86	42.21	0.0
TEN YR PROD= 270	MC ALESTER	597.47	28.93	32.1
CASE NO. 125	NEWPORT	560.16	28.01	*****
( 0/ 0/ 0)	HAWTHORNE	844.05	42.20	0.0
TEN YR PROD= 0	MC ALESTER	578.55	28.93	32.4

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RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COSI / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST=-10%, MTLs= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 1	NEWPORT	861.39	27.55	*****
(100/100/100)	HAWTHORNE	1244.79	43.87	0.0
TEN YR PROD= 3600	MC ALESTER	942.96	31.03	2.5
CASE NO. 2	NEWPORT	842.84	27.33	*****
(100/100/ 75)	HAWTHORNE	1223.99	43.71	0.0
TEN YR PROD= 3330	MC ALESTER	924.04	30.83	2.4
CASE NO. 3	NEWPORT	824.29	27.11	*****
(100/100/ 50)	HAWTHORNE	1203.18	43.55	0.0
TEN YR PROD= 3060	MC ALESTER	905.12	30.63	2.4
CASE NO. 4	NEWPORT	805.75	26.90	*****
(100/100/ 25)	HAWTHORNE	1182.37	43.40	0.0
TEN YR PROD= 2790	MC ALESTER	886.20	30.44	2.4
CASE NO. 5	NEWPORT	787.20	26.70	*****
(100/100/ 0)	HAWTHORNE	1161.57	43.26	0.0
TEN YR PROD= 2520	MC ALESTER	867.28	30.27	2.4
CASE NO. 6	NEWPORT	836.70	27.25	*****
(100/ 75/100)	HAWTHORNE	1217.10	43.65	0.0
TEN YR PROD= 3330	MC ALESTER	917.78	30.76	2.4
CASE NO. 7	NEWPORT	818.15	27.04	*****
(100/ 75/ 75)	HAWTHORNE	1196.29	43.50	0.0
TEN YR PROD= 3060	MC ALESTER	898.86	30.57	2.4
CASE NO. 8	NEWPORT	799.61	26.83	*****
(100/ 75/ 50)	HAWTHORNE	1175.49	43.35	0.0
TEN YR PROD= 2790	MC ALESTER	879.94	30.38	2.4
CASE NO. 9	NEWPORT	781.06	26.64	*****
(100/ 75/ 25)	HAWTHORNE	1154.68	43.21	0.0
TEN YR PROD= 2520	MC ALESTER	861.02	30.21	2.4
CASE NO. 10	NEWPORT	762.51	26.46	*****
(100/ 75/ 0)	HAWTHORNE	1133.87	43.08	0.0
TEN YR PROD= 2250	MC ALESTER	842.10	30.05	2.3

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST=-10%, MTLs= 0% UTLs= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 11	NEWPORT	812.01	26.97	*****
(100/ 50/100)	HAWTHORNE	1189.41	43.45	0.0
TEN YR PROD= 3060	MC ALESTER	892.59	30.50	2.4
CASE NO. 12	NEWPORT	793.47	26.77	*****
(100/ 50/ 75)	HAWTHORNE	1168.60	43.31	0.0
TEN YR PROD= 2790	MC ALESTER	873.67	30.32	2.4
CASE NO. 13	NEWPORT	774.92	26.58	*****
(100/ 50/ 50)	HAWTHORNE	1147.79	43.17	0.0
TEN YR PROD= 2520	MC ALESTER	854.75	30.15	2.4
CASE NO. 14	NEWPORT	756.37	26.40	*****
(100/ 50/ 25)	HAWTHORNE	1126.99	43.04	0.0
TEN YR PROD= 2250	MC ALESTER	835.83	30.00	2.3
CASE NO. 15	NEWPORT	737.82	26.24	*****
(100/ 50/ 0)	HAWTHORNE	1106.18	42.93	0.0
TEN YR PROD= 1980	MC ALESTER	816.91	29.85	2.3
CASE NO. 16	NEWPORT	787.33	26.71	*****
(100/ 25/100)	HAWTHORNE	1161.71	43.26	0.0
TEN YR PROD= 2790	MC ALESTER	867.41	30.27	2.4
CASE NO. 17	NEWPORT	768.78	26.52	*****
(100/ 25/ 75)	HAWTHORNE	1140.91	43.13	0.0
TEN YR PROD= 2520	MC ALESTER	848.49	30.10	2.3
CASE NO. 18	NEWPORT	750.23	26.35	*****
(100/ 25/ 50)	HAWTHORNE	1120.10	43.00	0.0
TEN YR PROD= 2250	MC ALESTER	829.57	29.94	2.3
CASE NO. 19	NEWPORT	731.68	26.18	*****
(100/ 25/ 25)	HAWTHORNE	1099.29	42.89	0.0
TEN YR PROD= 1980	MC ALESTER	810.65	29.80	2.3
CASE NO. 20	NEWPORT	713.13	26.03	*****
(100/ 25/ 0)	HAWTHORNE	1078.49	42.78	0.0
TEN YR PROD= 1710	MC ALESTER	791.73	29.66	2.3



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST=-10%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 21 (100/ 0/100)	NEWPORT HAWTHORNE	762.64 1134.02	26.46 43.09	***** 0.0
TEN YR PROD= 2520	MC ALESTER	842.23	30.05	2.3
CASE NO. 22 (100/ 0/ 75)	NEWPORT HAWTHORNE	744.09 1113.21	26.29 42.96	***** 0.0
TEN YR PROD= 2250	MC ALESTER	823.31	29.90	2.3
CASE NO. 23 (100/ 0/ 50)	NEWPORT HAWTHORNE	725.54 1092.41	26.13 42.85	***** 0.0
TEN YR PROD= 1980	MC ALESTER	804.39	29.75	2.3
CASE NO. 24 (100/ 0/ 25)	NEWPORT HAWTHORNE	706.99 1071.60	25.99 42.75	***** 0.0
TEN YR PROD= 1710	MC ALESTER	785.47	29.62	2.3
CASE NO. 25 (100/ 0/ 0)	NEWPORT HAWTHORNE	688.45 1050.79	25.85 42.65	***** 0.0
TEN YR PROD= 1440	MC ALESTER	766.55	29.50	2.3
CASE NO. 26 ( 75/100/100)	NEWPORT HAWTHORNE	815.31 1193.11	27.01 43.48	***** 0.0
TEN YR PROD= 3240	MC ALESTER	895.96	30.54	2.4
CASE NO. 27 ( 75/100/ 75)	NEWPORT HAWTHORNE	796.77 1172.30	26.80 43.33	***** 0.0
TEN YR PROD= 2970	MC ALESTER	877.04	30.36	2.4
CASE NO. 28 ( 75/100/ 50)	NEWPORT HAWTHORNE	778.22 1151.49	26.61 43.19	***** 0.0
TEN YR PROD= 2700	MC ALESTER	858.12	30.18	2.4
CASE NO. 29 ( 75/100/ 25)	NEWPORT HAWTHORNE	759.67 1130.69	26.43 43.07	***** 0.0
TEN YR PROD= 2430	MC ALESTER	839.20	30.02	2.3
CASE NO. 30 ( 75/100/ 0)	NEWPORT HAWTHORNE	741.12 1109.88	26.27 42.95	***** 0.0
TEN YR PROD= 2160	MC ALESTER	820.28	29.87	2.3

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST=-10%, MTLs= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 31	NEWPORT	790.63	26.74	*****
( 75/ 75/100)	HAWTHORNE	1165.41	43.28	0.0
TEN YR PROD= 2970	MC ALESTER	870.78	30.30	2.4
CASE NO. 32	NEWPORT	772.08	26.55	*****
( 75/ 75/ 75)	HAWTHORNE	1144.61	43.15	0.0
TEN YR PROD= 2700	MC ALESTER	851.86	30.13	2.3
CASE NO. 33	NEWPORT	753.53	26.38	*****
( 75/ 75/ 50)	HAWTHORNE	1123.80	43.02	0.0
TEN YR PROD= 2430	MC ALESTER	832.94	29.97	2.3
CASE NO. 34	NEWPORT	734.98	26.21	*****
( 75/ 75/ 25)	HAWTHORNE	1102.99	42.91	0.0
TEN YR PROD= 2160	MC ALESTER	814.02	29.82	2.3
CASE NO. 35	NEWPORT	716.43	26.06	*****
( 75/ 75/ 0)	HAWTHORNE	1082.19	42.80	0.0
TEN YR PROD= 1890	MC ALESTER	795.10	29.69	2.3
CASE NO. 36	NEWPORT	765.94	26.49	*****
( 75/ 50/100)	HAWTHORNE	1137.72	43.11	0.0
TEN YR PROD= 2700	MC ALESTER	845.59	30.08	2.3
CASE NO. 37	NEWPORT	747.39	26.32	*****
( 75/ 50/ 75)	HAWTHORNE	1116.91	42.99	0.0
TEN YR PROD= 2430	MC ALESTER	826.67	29.92	2.3
CASE NO. 38	NEWPORT	728.84	26.16	*****
( 75/ 50/ 50)	HAWTHORNE	1096.11	42.87	0.0
TEN YR PROD= 2160	MC ALESTER	807.75	29.78	2.3
CASE NO. 39	NEWPORT	710.29	26.01	*****
( 75/ 50/ 25)	HAWTHORNE	1075.30	42.77	0.0
TEN YR PROD= 1890	MC ALESTER	788.83	29.65	2.3
CASE NO. 40	NEWPORT	691.75	25.88	*****
( 75/ 50/ 0)	HAWTHORNE	1054.49	42.67	0.0
TEN YR PROD= 1620	MC ALESTER	769.91	29.52	2.3

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST=-10%, MTLs= 0% UTLs= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 41	NEWPORT	741.25	26.27	*****
( 75/ 25/100)	HAWTHORNE	1110.03	42.95	0.0
TEN YR PROD= 2430	MC ALESTER	820.41	29.87	2.3
CASE NO. 42	NEWPORT	722.70	26.11	*****
( 75/ 25/ 75)	HAWTHORNE	1089.22	42.84	0.0
TEN YR PROD= 2160	MC ALESTER	801.49	29.73	2.3
CASE NO. 43	NEWPORT	704.15	25.97	*****
( 75/ 25/ 50)	HAWTHORNE	1068.41	42.73	0.0
TEN YR PROD= 1890	MC ALESTER	782.57	29.60	2.3
CASE NO. 44	NEWPORT	685.61	25.83	*****
( 75/ 25/ 25)	HAWTHORNE	1047.61	42.64	0.0
TEN YR PROD= 1620	MC ALESTER	763.65	29.48	2.3
CASE NO. 45	NEWPORT	667.06	25.71	*****
( 75/ 25/ 0)	HAWTHORNE	1026.80	42.56	0.0
TEN YR PROD= 1350	MC ALESTER	744.73	29.38	2.3
CASE NO. 46	NEWPORT	716.56	26.06	*****
( 75/ 0/100)	HAWTHORNE	1082.33	42.80	0.0
TEN YR PROD= 2160	MC ALESTER	795.23	29.69	2.3
CASE NO. 47	NEWPORT	698.02	25.92	*****
( 75/ 0/ 75)	HAWTHORNE	1061.53	42.70	0.0
TEN YR PROD= 1890	MC ALESTER	776.31	29.56	2.3
CASE NO. 48	NEWPORT	679.47	25.79	*****
( 75/ 0/ 50)	HAWTHORNE	1040.72	42.61	0.0
TEN YR PROD= 1620	MC ALESTER	757.39	29.45	2.3
CASE NO. 49	NEWPORT	660.92	25.68	*****
( 75/ 0/ 25)	HAWTHORNE	1019.91	42.53	0.0
TEN YR PROD= 1350	MC ALESTER	738.47	29.34	2.3
CASE NO. 50	NEWPORT	642.37	25.57	*****
( 75/ 0/ 0)	HAWTHORNE	999.11	42.46	0.0
TEN YR PROD= 1080	MC ALESTER	719.55	29.25	2.3

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST=-10%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 51	NEWPORT	769.24	25.52	*****
( 50/100/100)	HAWTHORNE	1141.42	43.13	0.0
TEN YR PROD= 2880	MC ALESTER	848.96	30.10	2.3
CASE NO. 52	NEWPORT	750.69	26.35	*****
( 50/100/ 75)	HAWTHORNE	1120.62	43.01	0.0
TEN YR PROD= 2610	MC ALESTER	830.04	29.95	2.3
CASE NO. 53	NEWPORT	732.14	26.19	*****
( 50/100/ 50)	HAWTHORNE	1099.81	42.89	0.0
TEN YR PROD= 2340	MC ALESTER	811.12	29.80	2.3
CASE NO. 54	NEWPORT	713.59	26.04	*****
( 50/100/ 25)	HAWTHORNE	1079.00	42.78	0.0
TEN YR PROD= 2070	MC ALESTER	792.20	29.67	2.3
CASE NO. 55	NEWPORT	695.05	25.90	*****
( 50/100/ 0)	HAWTHORNE	1058.20	42.69	0.0
TEN YR PROD= 1800	MC ALESTER	773.28	29.54	2.3
CASE NO. 56	NEWPORT	744.55	26.30	*****
( 50/ 75/100)	HAWTHORNE	1113.73	42.97	0.0
TEN YR PROD= 2610	MC ALESTER	823.78	29.90	2.3
CASE NO. 57	NEWPORT	726.00	26.14	*****
( 50/ 75/ 75)	HAWTHORNE	1092.92	42.85	0.0
TEN YR PROD= 2340	MC ALESTER	804.86	29.76	2.3
CASE NO. 58	NEWPORT	707.46	25.99	*****
( 50/ 75/ 50)	HAWTHORNE	1072.12	42.75	0.0
TEN YR PROD= 2070	MC ALESTER	785.94	29.63	2.3
CASE NO. 59	NEWPORT	688.91	25.86	*****
( 50/ 75/ 25)	HAWTHORNE	1051.31	42.66	0.0
TEN YR PROD= 1800	MC ALESTER	767.02	29.51	2.3
CASE NO. 60	NEWPORT	670.36	25.73	*****
( 50/ 75/ 0)	HAWTHORNE	1030.50	42.57	0.0
TEN YR PROD= 1530	MC ALESTER	748.10	29.40	2.3



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST=-10%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 61	NEWPORT	719.86	26.09	*****
( 50/ 50/100)	HAWTHORNE	1086.03	42.82	0.0
TEN YR PROD= 2340	MC ALESTER	798.60	29.71	2.3
CASE NO. 62	NEWPORT	101.32	25.94	*****
( 50/ 50/ 75)	HAWTHORNE	1065.23	42.72	0.0
TEN YR PROD= 2070	MC ALESTER	779.67	29.58	2.3
CASE NO. 63	NEWPORT	682.77	25.81	*****
( 50/ 50/ 50)	HAWTHORNE	1044.42	42.63	0.0
TEN YR PROD= 1800	MC ALESTER	760.75	29.47	2.3
CASE NO. 64	NEWPORT	664.22	25.70	*****
( 50/ 50/ 25)	HAWTHORNE	1023.61	42.54	0.0
TEN YR PROD= 1530	MC ALESTER	741.83	29.36	2.3
CASE NO. 65	NEWPORT	645.67	25.59	*****
( 50/ 50/ 0)	HAWTHORNE	1002.81	42.47	0.0
TEN YR PROD= 1260	MC ALESTER	722.91	29.27	2.3
CASE NO. 66	NEWPORT	695.18	25.90	*****
( 50/ 25/100)	HAWTHORNE	1058.34	42.69	0.0
TEN YR PROD= 2070	MC ALESTER	773.41	29.54	2.3
CASE NO. 67	NEWPORT	676.63	25.77	*****
( 50/ 25/ 75)	HAWTHORNE	1037.53	42.60	0.0
TEN YR PROD= 1800	MC ALESTER	754.49	29.43	2.3
CASE NO. 68	NEWPORT	658.08	25.66	*****
( 50/ 25/ 50)	HAWTHORNE	1016.73	42.52	0.0
TEN YR PROD= 1530	MC ALESTER	735.57	29.33	2.3
CASE NO. 69	NEWPORT	639.53	25.56	*****
( 50/ 25/ 25)	HAWTHORNE	995.92	42.45	0.0
TEN YR PROD= 1260	MC ALESTER	716.65	29.24	2.4
CASE NO. 70	NEWPORT	620.98	25.47	*****
( 50/ 25/ 0)	HAWTHORNE	975.11	42.38	0.0
TEN YR PROD= 990	MC ALESTER	697.73	29.16	2.4



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST=-10%, MTLs= 0% UTLs= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 71	NEWPORT	670.49	25.73	*****
( 50/ 0/100)	HAWTHORNE	1030.65	42.57	0.0
TEN YR PROD= 1800	MC ALESTER	748.23	29.40	2.3
CASE NO. 72	NEWPORT	651.94	25.62	*****
( 50/ 0/ 75)	HAWTHORNE	1009.84	42.49	0.0
TEN YR PROD= 1530	MC ALESTER	729.31	29.30	2.3
CASE NO. 73	NEWPORT	633.39	25.53	*****
( 50/ 0/ 50)	HAWTHORNE	989.03	42.42	0.0
TEN YR PROD= 1260	MC ALESTER	710.39	29.21	2.4
CASE NO. 74	NEWPORT	614.84	25.44	*****
( 50/ 0/ 25)	HAWTHORNE	968.23	42.37	0.0
TEN YR PROD= 990	MC ALESTER	691.47	29.14	2.4
CASE NO. 75	NEWPORT	596.30	25.37	*****
( 50/ 0/ 0)	HAWTHORNE	947.42	42.32	0.0
TEN YR PROD= 720	MC ALESTER	672.55	29.07	2.4
CASE NO. 76	NEWPORT	723.16	26.11	*****
( 25/100/100)	HAWTHORNE	1089.74	42.84	0.0
TEN YR PROD= 2520	MC ALESTER	801.96	29.74	2.3
CASE NO. 77	NEWPORT	704.62	25.91	*****
( 25/100/ 75)	HAWTHORNE	1068.93	42.74	0.0
TEN YR PROD= 2250	MC ALESTER	783.04	29.61	2.3
CASE NO. 78	NEWPORT	686.07	25.84	*****
( 25/100/ 50)	HAWTHORNE	1048.12	42.64	0.0
TEN YR PROD= 1980	MC ALESTER	764.12	29.49	2.3
CASE NO. 79	NEWPORT	667.52	25.72	*****
( 25/100/ 25)	HAWTHORNE	1027.32	42.56	0.0
TEN YR PROD= 1710	MC ALESTER	745.20	29.38	2.3
CASE NO. 80	NEWPORT	648.97	25.61	*****
( 25/100/ 0)	HAWTHORNE	1006.51	42.48	0.0
TEN YR PROD= 1440	MC ALESTER	726.28	29.28	2.3

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RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST=-10%, MTLs= 0% UTLs= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 81	NEWPORT	698.48	25.92	*****
( 25/ 75/100)	HAWTHORNE	1062.04	42.70	0.0
TEN YR PROD= 2250	MC ALESTER	776.78	29.57	2.3
CASE NO. 82	NEWPORT	679.93	25.19	*****
( 25/ 75/ 75)	HAWTHORNE	1041.24	42.61	0.0
TEN YR PROD= 1980	MC ALESTER	757.86	29.45	2.3
CASE NO. 83	NEWPORT	661.38	25.68	*****
( 25/ 75/ 50)	HAWTHORNE	1020.43	42.53	0.0
TEN YR PROD= 1710	MC ALESTER	738.94	29.35	2.3
CASE NO. 84	NEWPORT	642.83	25.57	*****
( 25/ 75/ 25)	HAWTHORNE	999.62	42.46	0.0
TEN YR PROD= 1440	MC ALESTER	720.02	29.25	2.3
CASE NO. 85	NEWPORT	624.28	25.48	*****
( 25/ 75/ 0)	HAWTHORNE	978.82	42.39	0.0
TEN YR PROD= 1170	MC ALESTER	701.10	29.17	2.4
CASE NO. 86	NEWPORT	673.79	25.75	*****
( 25/ 50/100)	HAWTHORNE	1034.35	42.58	0.0
TEN YR PROD= 1980	MC ALESTER	751.60	29.42	2.3
CASE NO. 87	NEWPORT	655.24	25.64	*****
( 25/ 50/ 75)	HAWTHORNE	1013.54	42.51	0.0
TEN YR PROD= 1710	MC ALESTER	732.68	29.32	2.3
CASE NO. 88	NEWPORT	636.69	25.54	*****
( 25/ 50/ 50)	HAWTHORNE	992.74	42.44	0.0
TEN YR PROD= 1440	MC ALESTER	713.75	29.23	2.4
CASE NO. 89	NEWPORT	618.14	25.46	*****
( 25/ 50/ 25)	HAWTHORNE	971.93	42.38	0.0
TEN YR PROD= 1170	MC ALESTER	694.83	29.15	2.4
CASE NO. 90	NEWPORT	599.60	25.38	*****
( 25/ 50/ 0)	HAWTHORNE	951.12	42.32	0.0
TEN YR PROD= 900	MC ALESTER	675.91	29.08	2.4

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RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST=-10%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 91	NEWPORT	649.10	25.61	*****
( 25/ 25/100)	HAWTHORNE	1006.66	42.48	0.0
TEN YR PROD= 1710	MC ALESTER	726.41	29.28	2.3
CASE NO. 92	NEWPORT	630.55	25.51	*****
( 25/ 25/ 75)	HAWTHORNE	985.85	42.42	0.0
TEN YR PROD= 1440	MC ALESTER	707.49	29.20	2.4
CASE NO. 93	NEWPORT	612.00	25.43	*****
( 25/ 25/ 50)	HAWTHORNE	965.04	42.36	0.0
TEN YR PROD= 1170	MC ALESTER	688.57	29.13	2.4
CASE NO. 94	NEWPORT	593.46	25.36	*****
( 25/ 25/ 25)	HAWTHORNE	944.24	42.31	0.0
TEN YR PROD= 900	MC ALESTER	669.65	29.06	2.4
CASE NO. 95	NEWPORT	574.91	25.30	*****
( 25/ 25/ 0)	HAWTHORNE	923.43	42.27	0.0
TEN YR PROD= 630	MC ALESTER	650.73	29.01	2.4
CASE NO. 96	NEWPORT	624.41	25.48	*****
( 25/ 0/100)	HAWTHORNE	978.96	42.40	0.0
TEN YR PROD= 1440	MC ALESTER	701.23	29.17	2.4
CASE NO. 97	NEWPORT	605.86	25.41	*****
( 25/ 0/ 75)	HAWTHORNE	958.16	42.34	0.0
TEN YR PROD= 1170	MC ALESTER	682.31	29.10	2.4
CASE NO. 98	NEWPORT	587.32	25.34	*****
( 25/ 0/ 50)	HAWTHORNE	937.35	42.29	0.0
TEN YR PROD= 900	MC ALESTER	663.39	29.05	2.4
CASE NO. 99	NEWPORT	568.77	25.29	*****
( 25/ 0/ 25)	HAWTHORNE	916.54	42.26	0.0
TEN YR PROD= 630	MC ALESTER	644.47	29.00	2.5
CASE NO. 100	NEWPORT	550.22	25.25	*****
( 25/ 0/ 0)	HAWTHORNE	895.74	42.23	0.0
TEN YR PROD= 360	MC ALESTER	625.55	28.96	2.5

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST=-10%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 101	NEWPORT	677.09	25.78	*****
( 0/100/100)	HAWTHORNE	1038.05	42.60	0.0
TEN YR PROD= 2160	MC ALESTER	754.96	29.43	2.3
CASE NO. 102	NEWPORT	658.54	25.66	*****
( 0/100/ 75)	HAWTHORNE	1017.24	42.52	0.0
TEN YR PROD= 1890	MC ALESTER	736.04	29.33	2.3
CASE NO. 103	NEWPORT	639.99	25.56	*****
( 0/100/ 50)	HAWTHORNE	996.44	42.45	0.0
TEN YR PROD= 1620	MC ALESTER	717.12	29.24	2.4
CASE NO. 104	NEWPORT	621.44	25.47	*****
( 0/100/ 25)	HAWTHORNE	975.63	42.39	0.0
TEN YR PROD= 1350	MC ALESTER	698.20	29.16	2.4
CASE NO. 105	NEWPORT	602.90	25.39	*****
( 0/100/ 0)	HAWTHORNE	954.83	42.33	0.0
TEN YR PROD= 1080	MC ALESTER	679.28	29.09	2.4
CASE NO. 106	NEWPORT	652.40	25.63	*****
( 0/ 75/100)	HAWTHORNE	1010.36	42.49	0.0
TEN YR PROD= 1890	MC ALESTER	729.78	29.30	2.3
CASE NO. 107	NEWPORT	633.85	25.53	*****
( 0/ 75/ 75)	HAWTHORNE	989.55	42.43	0.0
TEN YR PROD= 1620	MC ALESTER	710.86	29.21	2.4
CASE NO. 108	NEWPORT	615.30	25.44	*****
( 0/ 75/ 50)	HAWTHORNE	968.74	42.37	0.0
TEN YR PROD= 1350	MC ALESTER	691.94	29.14	2.4
CASE NO. 109	NEWPORT	596.76	25.37	*****
( 0/ 75/ 25)	HAWTHORNE	947.94	42.32	0.0
TEN YR PROD= 1080	MC ALESTER	673.02	29.07	2.4
CASE NO. 110	NEWPORT	578.21	25.31	*****
( 0/ 75/ 0)	HAWTHORNE	927.13	42.28	0.0
TEN YR PROD= 810	MC ALESTER	654.10	29.02	2.4



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST=-10%, MTLs= 0% UTLs= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 111	NEWPORT	627.71	25.50	*****
( 0/ 50/100)	HAWTHORNE	982.66	42.41	0.0
TEN YR PROD= 1620	MC ALESTER	704.60	29.19	2.4
CASE NO. 112	NEWPORT	609.17	25.42	*****
( 0/ 50/ 75)	HAWTHORNE	961.86	42.35	0.0
TEN YR PROD= 1350	MC ALESTER	685.68	29.12	2.4
CASE NO. 113	NEWPORT	590.62	25.35	*****
( 0/ 50/ 50)	HAWTHORNE	941.05	42.30	0.0
TEN YR PROD= 1080	MC ALESTER	666.75	29.05	2.4
CASE NO. 114	NEWPORT	572.07	25.30	*****
( 0/ 50/ 25)	HAWTHORNE	920.24	42.26	0.0
TEN YR PROD= 810	MC ALESTER	647.83	29.01	2.4
CASE NO. 115	NEWPORT	553.52	25.25	*****
( 0/ 50/ 0)	HAWTHORNE	899.44	42.24	0.0
TEN YR PROD= 540	MC ALESTER	628.91	28.97	2.5
CASE NO. 116	NEWPORT	603.03	25.39	*****
( 0/ 25/100)	HAWTHORNE	954.97	42.33	0.0
TEN YR PROD= 1350	MC ALESTER	679.41	29.09	2.4
CASE NO. 117	NEWPORT	584.48	25.33	*****
( 0/ 25/ 75)	HAWTHORNE	934.16	42.29	0.0
TEN YR PROD= 1080	MC ALESTER	660.49	29.04	2.4
CASE NO. 118	NEWPORT	565.93	25.28	*****
( 0/ 25/ 50)	HAWTHORNE	913.36	42.25	0.0
TEN YR PROD= 810	MC ALESTER	641.57	28.99	2.5
CASE NO. 119	NEWPORT	547.38	25.24	*****
( 0/ 25/ 25)	HAWTHORNE	892.55	42.23	0.0
TEN YR PROD= 540	MC ALESTER	622.65	28.96	2.5
CASE NO. 120	NEWPORT	528.83	25.22	*****
( 0/ 25/ 0)	HAWTHORNE	871.74	42.21	0.0
TEN YR PROD= 270	MC ALESTER	603.73	28.94	2.6



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RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST=-10%, MTLS= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 121	NEWPORT	578.34	25.31	*****
( 0/ 0/100)	HAWTHORNE	927.28	42.28	0.0
TEN YR PROD= 1080	MC ALESTER	654.23	29.02	2.4
CASE NO. 122	NEWPORT	559.79	25.27	*****
( 0/ 0/ 75)	HAWTHORNE	906.47	42.24	0.0
TEN YR PROD= 810	MC ALESTER	635.31	28.98	2.5
CASE NO. 123	NEWPORT	541.24	25.23	*****
( 0/ 0/ 50)	HAWTHORNE	885.66	42.22	0.0
TEN YR PROD= 540	MC ALESTER	616.39	28.95	2.5
CASE NO. 124	NEWPORT	522.69	25.21	*****
( 0/ 0/ 25)	HAWTHORNE	864.86	42.21	0.0
TEN YR PROD= 270	MC ALESTER	597.47	28.93	2.6
CASE NO. 125	NEWPORT	504.15	25.21	*****
( 0/ 0/ 0)	HAWTHORNE	844.05	42.20	0.0
TEN YR PROD= 0	MC ALESTER	578.55	28.93	2.6

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RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= -5%, MTLs= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 1	NEWPORT	889.40	28.84	*****
(100/100/100)	HAWTHORNE	1244.79	43.87	0.0
TEN YR PROD= 3600	MC ALESTER	942.96	31.03	10.3
CASE NO. 2	NEWPORT	870.85	28.62	*****
(100/100/ 75)	HAWTHORNE	1223.99	43.71	0.0
TEN YR PROD= 3330	MC ALESTER	924.04	30.83	10.3
CASE NO. 3	NEWPORT	852.30	28.41	*****
(100/100/ 50)	HAWTHORNE	1203.18	43.55	0.0
TEN YR PROD= 3060	MC ALESTER	905.12	30.63	10.3
CASE NO. 4	NEWPORT	833.75	28.22	*****
(100/100/ 25)	HAWTHORNE	1182.37	43.40	0.0
TEN YR PROD= 2790	MC ALESTER	886.20	30.44	10.3
CASE NO. 5	NEWPORT	815.21	28.03	*****
(100/100/ 0)	HAWTHORNE	1161.57	43.26	0.0
TEN YR PROD= 2520	MC ALESTER	867.28	30.27	10.3
CASE NO. 6	NEWPORT	864.71	28.55	*****
(100/ 75/100)	HAWTHORNE	1217.10	43.65	0.0
TEN YR PROD= 3330	MC ALESTER	917.78	30.76	10.3
CASE NO. 7	NEWPORT	846.16	28.35	*****
(100/ 75/ 75)	HAWTHORNE	1196.29	43.50	0.0
TEN YR PROD= 3060	MC ALESTER	898.86	30.57	10.3
CASE NO. 8	NEWPORT	827.61	28.15	*****
(100/ 75/ 50)	HAWTHORNE	1175.49	43.35	0.0
TEN YR PROD= 2790	MC ALESTER	879.94	30.38	10.3
CASE NO. 9	NEWPORT	809.07	27.97	*****
(100/ 75/ 25)	HAWTHORNE	1154.68	43.21	0.0
TEN YR PROD= 2520	MC ALESTER	861.02	30.21	10.3
CASE NO. 10	NEWPORT	790.52	27.80	*****
(100/ 75/ 0)	HAWTHORNE	1133.87	43.08	0.0
TEN YR PROD= 2250	MC ALESTER	842.10	30.05	10.4

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= -5%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 11	NEWPORT	840.02	28.28	*****
(100/ 50/100)	HAWTHORNE	1189.41	43.45	0.0
TEN YR PROD= 3060	MC ALESTER	892.59	30.50	10.3
CASE NO. 12	NEWPORT	821.47	28.09	*****
(100/ 50/ 75)	HAWTHORNE	1168.60	43.31	0.0
TEN YR PROD= 2790	MC ALESTER	873.67	30.32	10.3
CASE NO. 13	NEWPORT	802.93	27.91	*****
(100/ 50/ 50)	HAWTHORNE	1147.79	43.17	0.0
TEN YR PROD= 2520	MC ALESTER	854.75	30.15	10.4
CASE NO. 14	NEWPORT	784.38	27.74	*****
(100/ 50/ 25)	HAWTHORNE	1126.99	43.04	0.0
TEN YR PROD= 2250	MC ALESTER	835.83	30.00	10.4
CASE NO. 15	NEWPORT	765.83	27.58	*****
(100/ 50/ 0)	HAWTHORNE	1106.18	42.93	0.0
TEN YR PROD= 1980	MC ALESTER	816.91	29.85	10.4
CASE NO. 16	NEWPORT	815.33	28.03	*****
(100/ 25/100)	HAWTHORNE	1161.71	43.26	0.0
TEN YR PROD= 2790	MC ALESTER	867.41	30.27	10.3
CASE NO. 17	NEWPORT	796.79	27.85	*****
(100/ 25/ 75)	HAWTHORNE	1140.91	43.13	0.0
TEN YR PROD= 2520	MC ALESTER	848.49	30.10	10.4
CASE NO. 18	NEWPORT	778.24	27.69	*****
(100/ 25/ 50)	HAWTHORNE	1120.10	43.00	0.0
TEN YR PROD= 2250	MC ALESTER	829.57	29.94	10.4
CASE NO. 19	NEWPORT	759.69	27.54	*****
(100/ 25/ 25)	HAWTHORNE	1099.29	42.89	0.0
TEN YR PROD= 1980	MC ALESTER	810.65	29.80	10.5
CASE NO. 20	NEWPORT	741.14	27.39	*****
(100/ 25/ 0)	HAWTHORNE	1078.49	42.78	0.0
TEN YR PROD= 1710	MC ALESTER	791.73	29.66	10.5

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= -5%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 21	NEWPORT	790.65	27.80	*****
(100/ 0/100)	HAWTHORNE	1134.02	43.09	0.0
TEN YR PROD= 2520	MC ALESTER	842.23	30.05	10.4
CASE NO. 22	NEWPORT	772.10	27.64	*****
(100/ 0/ 75)	HAWTHORNE	1113.21	42.96	0.0
TEN YR PROD= 2250	MC ALESTER	823.31	29.90	10.4
CASE NO. 23	NEWPORT	753.55	27.49	*****
(100/ 0/ 50)	HAWTHORNE	1092.41	42.85	0.0
TEN YR PROD= 1980	MC ALESTER	804.39	29.75	10.5
CASE NO. 24	NEWPORT	735.00	27.35	*****
(100/ 0/ 25)	HAWTHORNE	1071.60	42.75	0.0
TEN YR PROD= 1710	MC ALESTER	785.47	29.62	10.5
CASE NO. 25	NEWPORT	716.45	27.22	*****
(100/ 0/ 0)	HAWTHORNE	1050.79	42.65	0.0
TEN YR PROD= 1440	MC ALESTER	766.55	29.50	10.6
CASE NO. 26	NEWPORT	843.32	28.32	*****
( 75/100/100)	HAWTHORNE	1193.11	43.48	0.0
TEN YR PROD= 3240	MC ALESTER	895.96	30.54	10.3
CASE NO. 27	NEWPORT	824.77	28.13	*****
( 75/100/ 75)	HAWTHORNE	1172.30	43.33	0.0
TEN YR PROD= 2970	MC ALESTER	877.04	30.36	10.3
CASE NO. 28	NEWPORT	806.23	27.94	*****
( 75/100/ 50)	HAWTHORNE	1151.49	43.19	0.0
TEN YR PROD= 2700	MC ALESTER	858.12	30.18	10.4
CASE NO. 29	NEWPORT	787.68	27.77	*****
( 75/100/ 25)	HAWTHORNE	1130.69	43.07	0.0
TEN YR PROD= 2430	MC ALESTER	839.20	30.02	10.4
CASE NO. 30	NEWPORT	769.13	27.61	*****
( 75/100/ 0)	HAWTHORNE	1109.88	42.95	0.0
TEN YR PROD= 2160	MC ALESTER	820.28	29.87	10.4



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RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= -5%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 31	NEWPORT	818.63	28.06	*****
( 75/ 75/100)	HAWTHORNE	1165.41	43.28	0.0
TEN YR PROD= 2970	MC ALESTER	870.78	30.30	10.3
CASE NO. 32	NEWPORT	800.09	27.89	*****
( 75/ 75/ 75)	HAWTHORNE	1144.61	43.15	0.0
TEN YR PROD= 2700	MC ALESTER	851.86	30.13	10.4
CASE NO. 33	NEWPORT	781.54	27.12	*****
( 75/ 75/ 50)	HAWTHORNE	1123.80	43.02	0.0
TEN YR PROD= 2430	MC ALESTER	832.94	29.97	10.4
CASE NO. 34	NEWPORT	762.99	27.56	*****
( 75/ 75/ 25)	HAWTHORNE	1102.99	42.91	0.0
TEN YR PROD= 2160	MC ALESTER	814.02	29.82	10.4
CASE NO. 35	NEWPORT	744.44	27.42	*****
( 75/ 75/ 0)	HAWTHORNE	1082.19	42.80	0.0
TEN YR PROD= 1890	MC ALESTER	795.10	29.69	10.5
CASE NO. 36	NEWPORT	793.95	27.83	*****
( 75/ 50/100)	HAWTHORNE	1137.72	43.11	0.0
TEN YR PROD= 2700	MC ALESTER	845.59	30.08	10.4
CASE NO. 37	NEWPORT	775.40	27.67	*****
( 75/ 50/ 75)	HAWTHORNE	1116.91	42.99	0.0
TEN YR PROD= 2430	MC ALESTER	826.67	29.92	10.4
CASE NO. 38	NEWPORT	756.85	27.51	*****
( 75/ 50/ 50)	HAWTHORNE	1096.11	42.87	0.0
TEN YR PROD= 2160	MC ALESTER	807.75	29.78	10.5
CASE NO. 39	NEWPORT	738.30	27.37	*****
( 75/ 50/ 25)	HAWTHORNE	1075.30	42.77	0.0
TEN YR PROD= 1890	MC ALESTER	788.83	29.65	10.5
CASE NO. 40	NEWPORT	719.75	27.24	*****
( 75/ 50/ 0)	HAWTHORNE	1054.49	42.67	0.0
TEN YR PROD= 1620	MC ALESTER	769.91	29.52	10.6

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= -5%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 41	NEWPORT	769.26	27.61	*****
( 75/ 25/100)	HAWTHORNE	1110.03	42.95	0.0
TEN YR PROD= 2430	MC ALESTER	820.41	29.87	10.4
CASE NO. 42	NEWPORT	750.71	27.46	*****
( 75/ 25/ 75)	HAWTHORNE	1089.22	42.84	0.0
TEN YR PROD= 2160	MC ALESTER	801.49	29.73	10.5
CASE NO. 43	NEWPORT	732.16	27.33	*****
( 75/ 25/ 50)	HAWTHORNE	1068.41	42.73	0.0
TEN YR PROD= 1890	MC ALESTER	782.57	29.60	10.5
CASE NO. 44	NEWPORT	713.61	27.20	*****
( 75/ 25/ 25)	HAWTHORNE	1047.61	42.64	0.0
TEN YR PROD= 1620	MC ALESTER	763.65	29.48	10.6
CASE NO. 45	NEWPORT	695.07	27.09	*****
( 75/ 25/ 0)	HAWTHORNE	1026.80	42.56	0.0
TEN YR PROD= 1350	MC ALESTER	744.73	29.38	10.7
CASE NO. 46	NEWPORT	744.57	27.42	*****
( 75/ 0/100)	HAWTHORNE	1082.33	42.80	0.0
TEN YR PROD= 2160	MC ALESTER	795.23	29.69	10.5
CASE NO. 47	NEWPORT	726.02	27.28	*****
( 75/ 0/ 75)	HAWTHORNE	1061.53	42.70	0.0
TEN YR PROD= 1890	MC ALESTER	776.31	29.56	10.6
CASE NO. 48	NEWPORT	707.48	27.16	*****
( 75/ 0/ 50)	HAWTHORNE	1040.72	42.61	0.0
TEN YR PROD= 1620	MC ALESTER	757.39	29.45	10.6
CASE NO. 49	NEWPORT	688.93	27.05	*****
( 75/ 0/ 25)	HAWTHORNE	1019.91	42.53	0.0
TEN YR PROD= 1350	MC ALESTER	738.47	29.34	10.7
CASE NO. 50	NEWPORT	670.38	26.95	*****
( 75/ 0/ 0)	HAWTHORNE	999.11	42.46	0.0
TEN YR PROD= 1080	MC ALESTER	719.55	29.25	10.8

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= -5%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 51 ( 50/100/100)	NEWPORT HAWTHORNE	797.25 1141.42	27.86 43.13	***** 0.0
TEN YR PROD= 2880	MC ALESTER	848.96	30.10	10.4
CASE NO. 52 ( 50/100/ 75)	NEWPORT HAWTHORNE	778.70 1120.62	27.69 43.01	***** 0.0
TEN YR PROD= 2610	MC ALESTER	830.04	29.95	10.4
CASE NO. 53 ( 50/100/ 50)	NEWPORT HAWTHORNE	760.15 1099.81	27.54 42.89	***** 0.0
TEN YR PROD= 2340	MC ALESTER	811.12	29.80	10.5
CASE NO. 54 ( 50/100/ 25)	NEWPORT HAWTHORNE	741.60 1079.00	27.40 42.78	***** 0.0
TEN YR PROD= 2070	MC ALESTER	792.20	29.67	10.5
CASE NO. 55 ( 50/100/ 0)	NEWPORT HAWTHORNE	723.06 1058.20	27.26 42.69	***** 0.0
TEN YR PROD= 1800	MC ALESTER	773.28	29.54	10.6
CASE NO. 56 ( 50/ 75/100)	NEWPORT HAWTHORNE	772.56 1113.73	27.64 42.97	***** 0.0
TEN YR PROD= 2610	MC ALESTER	823.78	29.90	10.4
CASE NO. 57 ( 50/ 75/ 75)	NEWPORT HAWTHORNE	754.01 1092.92	27.49 42.85	***** 0.0
TEN YR PROD= 2340	MC ALESTER	804.86	29.76	10.5
CASE NO. 58 ( 50/ 75/ 50)	NEWPORT HAWTHORNE	735.46 1072.12	27.35 42.75	***** 0.0
TEN YR PROD= 2070	MC ALESTER	785.94	29.63	10.5
CASE NO. 59 ( 50/ 75/ 25)	NEWPORT HAWTHORNE	716.92 1051.31	27.22 42.66	***** 0.0
TEN YR PROD= 1800	MC ALESTER	767.02	29.51	10.6
CASE NO. 60 ( 50/ 75/ 0)	NEWPORT HAWTHORNE	698.37 1030.50	27.11 42.57	***** 0.0
TEN YR PROD= 1530	MC ALESTER	748.10	29.40	10.7

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= -5%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN SMILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 61	NEWPORT	747.87	27.44	*****
( 50/ 50/100)	HAWTHORNE	1086.03	42.82	0.0
TEN YR PROD= 2340	MC ALESTER	798.60	29.71	10.5
CASE NO. 62	NEWPORT	729.32	27.31	*****
( 50/ 50/ 75)	HAWTHORNE	1065.23	42.72	0.0
TEN YR PROD= 2070	MC ALESTER	779.67	29.58	10.6
CASE NO. 63	NEWPORT	710.78	27.18	*****
( 50/ 50/ 50)	HAWTHORNE	1044.42	42.63	0.0
TEN YR PROD= 1800	MC ALESTER	760.75	29.47	10.6
CASE NO. 64	NEWPORT	692.23	27.07	*****
( 50/ 50/ 25)	HAWTHORNE	1023.61	42.54	0.0
TEN YR PROD= 1530	MC ALESTER	741.83	29.36	10.7
CASE NO. 65	NEWPORT	673.68	26.97	*****
( 50/ 50/ 0)	HAWTHORNE	1002.81	42.47	0.0
TEN YR PROD= 1260	MC ALESTER	722.91	29.27	10.8
CASE NO. 66	NEWPORT	723.18	27.26	*****
( 50/ 25/100)	HAWTHORNE	1058.34	42.69	0.0
TEN YR PROD= 2070	MC ALESTER	773.41	29.54	10.6
CASE NO. 67	NEWPORT	704.64	27.14	*****
( 50/ 25/ 75)	HAWTHORNE	1037.53	42.60	0.0
TEN YR PROD= 1800	MC ALESTER	754.49	29.43	10.7
CASE NO. 68	NEWPORT	686.09	27.04	*****
( 50/ 25/ 50)	HAWTHORNE	1016.73	42.52	0.0
TEN YR PROD= 1530	MC ALESTER	735.57	29.33	10.7
CASE NO. 69	NEWPORT	667.54	26.94	*****
( 50/ 25/ 25)	HAWTHORNE	995.92	42.45	0.0
TEN YR PROD= 1260	MC ALESTER	716.65	29.24	10.8
CASE NO. 70	NEWPORT	648.99	26.86	*****
( 50/ 25/ 0)	HAWTHORNE	975.11	42.38	0.0
TEN YR PROD= 990	MC ALESTER	697.73	29.16	10.9



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
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 CONST= -5%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 71 ( 50/ 0/100)	NEWPORT HAWTHORNE	698.50 1030.65	27.11 42.57	***** 0.0
TEN YR PROD= 1800	MC ALESTER	748.23	29.40	10.7
CASE NO. 72 ( 50/ 0/ 75)	NEWPORT HAWTHORNE	679.95 1009.84	27.00 42.49	***** 0.0
TEN YR PROD= 1530	MC ALESTER	729.31	29.30	10.8
CASE NO. 73 ( 50/ 0/ 50)	NEWPORT HAWTHORNE	661.40 989.03	26.91 42.42	***** 0.0
TEN YR PROD= 1260	MC ALESTER	710.39	29.21	10.9
CASE NO. 74 ( 50/ 0/ 25)	NEWPORT HAWTHORNE	642.85 968.23	26.83 42.37	***** 0.0
TEN YR PROD= 990	MC ALESTER	691.47	29.14	11.0
CASE NO. 75 ( 50/ 0/ 0)	NEWPORT HAWTHORNE	624.30 947.42	26.76 42.32	***** 0.0
TEN YR PROD= 720	MC ALESTER	672.55	29.07	11.1
CASE NO. 76 ( 25/100/100)	NEWPORT HAWTHORNE	751.17 1089.74	27.47 42.84	***** 0.0
TEN YR PROD= 2520	MC ALESTER	801.96	29.74	10.5
CASE NO. 77 ( 25/100/ 75)	NEWPORT HAWTHORNE	732.62 1068.93	27.33 42.74	***** 0.0
TEN YR PROD= 2250	MC ALESTER	783.04	29.61	10.5
CASE NO. 78 ( 25/100/ 50)	NEWPORT HAWTHORNE	714.08 1048.12	27.20 42.64	***** 0.0
TEN YR PROD= 1980	MC ALESTER	764.12	29.49	10.6
CASE NO. 79 ( 25/100/ 25)	NEWPORT HAWTHORNE	695.53 1027.32	27.09 42.56	***** 0.0
TEN YR PROD= 1710	MC ALESTER	745.20	29.38	10.7
CASE NO. 80 ( 25/100/ 0)	NEWPORT HAWTHORNE	676.98 1006.51	26.99 42.48	***** 0.0
TEN YR PROD= 1440	MC ALESTER	726.28	29.28	10.8



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
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 INCREASE IN NEWPORT AAP COSTS  
 CONST = -5%, MTLs = 0% UTLs = 0%, LBR = 0%, TRANS = 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 81 ( 25/ 75/100)	NEWPORT HAWTHORNE	726.48 1062.04	27.29 42.70	***** 0.0
TEN YR PROD= 2250	MC ALESTER	776.78	29.57	10.6
CASE NO. 82 ( 25/ 75/ 75)	NEWPORT HAWTHORNE	707.94 1041.24	27.17 42.61	***** 0.0
TEN YR PROD= 1980	MC ALESTER	757.86	29.45	10.6
CASE NO. 83 ( 25/ 75/ 50)	NEWPORT HAWTHORNE	689.39 1020.43	27.05 42.53	***** 0.0
TEN YR PROD= 1710	MC ALESTER	738.94	29.35	10.7
CASE NO. 84 ( 25/ 75/ 25)	NEWPORT HAWTHORNE	670.84 999.62	26.96 42.46	***** 0.0
TEN YR PROD= 1440	MC ALESTER	720.02	29.25	10.8
CASE NO. 85 ( 25/ 75/ 0)	NEWPORT HAWTHORNE	652.29 978.82	26.87 42.39	***** 0.0
TEN YR PROD= 1170	MC ALESTER	701.10	29.17	10.9
CASE NO. 86 ( 25/ 50/100)	NEWPORT HAWTHORNE	701.80 1034.35	27.13 42.58	***** 0.0
TEN YR PROD= 1980	MC ALESTER	751.60	29.42	10.7
CASE NO. 87 ( 25/ 50/ 75)	NEWPORT HAWTHORNE	683.25 1013.54	27.02 42.51	***** 0.0
TEN YR PROD= 1710	MC ALESTER	732.68	29.32	10.8
CASE NO. 88 ( 25/ 50/ 50)	NEWPORT HAWTHORNE	664.70 992.74	26.93 42.44	***** 0.0
TEN YR PROD= 1440	MC ALESTER	713.75	29.23	10.9
CASE NO. 89 ( 25/ 50/ 25)	NEWPORT HAWTHORNE	646.15 971.93	26.84 42.38	***** 0.0
TEN YR PROD= 1170	MC ALESTER	694.83	29.15	11.0
CASE NO. 90 ( 25/ 50/ 0)	NEWPORT HAWTHORNE	627.60 951.12	26.77 42.32	***** 0.0
TEN YR PROD= 900	MC ALESTER	675.91	29.08	11.1

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= -5%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 91	NEWPORT	677.11	26.99	*****
( 25/ 25/100)	HAWTHORNE	1006.66	42.48	0.0
TEN YR PROD= 1710	MC ALESTER	726.41	29.28	10.8
CASE NO. 92	NEWPORT	658.56	26.90	*****
( 25/ 25/ 75)	HAWTHORNE	985.85	42.42	0.0
TEN YR PROD= 1440	MC ALESTER	707.49	29.20	10.9
CASE NO. 93	NEWPORT	640.01	26.82	*****
( 25/ 25/ 50)	HAWTHORNE	965.04	42.36	0.0
TEN YR PROD= 1170	MC ALESTER	688.57	29.13	11.0
CASE NO. 94	NEWPORT	621.46	26.75	*****
( 25/ 25/ 25)	HAWTHORNE	944.24	42.31	0.0
TEN YR PROD= 900	MC ALESTER	669.65	29.06	11.1
CASE NO. 95	NEWPORT	602.92	26.70	*****
( 25/ 25/ 0)	HAWTHORNE	923.43	42.27	0.0
TEN YR PROD= 630	MC ALESTER	650.73	29.01	11.3
CASE NO. 96	NEWPORT	652.42	26.87	*****
( 25/ 0/100)	HAWTHORNE	978.96	42.40	0.0
TEN YR PROD= 1440	MC ALESTER	701.23	29.17	10.9
CASE NO. 97	NEWPORT	633.87	26.80	*****
( 25/ 0/ 75)	HAWTHORNE	958.16	42.34	0.0
TEN YR PROD= 1170	MC ALESTER	682.31	29.10	11.0
CASE NO. 98	NEWPORT	615.32	26.73	*****
( 25/ 0/ 50)	HAWTHORNE	937.35	42.29	0.0
TEN YR PROD= 900	MC ALESTER	663.39	29.05	11.2
CASE NO. 99	NEWPORT	596.78	26.68	*****
( 25/ 0/ 25)	HAWTHORNE	916.54	42.26	0.0
TEN YR PROD= 630	MC ALESTER	644.47	29.00	11.3
CASE NO. 100	NEWPORT	578.23	26.65	*****
( 25/ 0/ 0)	HAWTHORNE	895.74	42.23	0.0
TEN YR PROD= 360	MC ALESTER	625.55	28.96	11.5

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= -5%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 101	NEWPORT	705.10	27.15	*****
( 0/100/100)	HAWTHORNE	1038.05	42.60	0.0
TEN YR PROD= 2160	MC ALESTER	754.96	29.43	10.7
CASE NO. 102	NEWPORT	686.55	27.04	*****
( 0/100/ 75)	HAWTHORNE	1017.24	42.52	0.0
TEN YR PROD= 1890	MC ALESTER	736.04	29.33	10.7
CASE NO. 103	NEWPORT	668.00	26.94	*****
( 0/100/ 50)	HAWTHORNE	996.44	42.45	0.0
TEN YR PROD= 1620	MC ALESTER	717.12	29.24	10.8
CASE NO. 104	NEWPORT	649.45	26.86	*****
( 0/100/ 25)	HAWTHORNE	975.63	42.39	0.0
TEN YR PROD= 1350	MC ALESTER	698.20	29.16	10.9
CASE NO. 105	NEWPORT	630.90	26.78	*****
( 0/100/ 0)	HAWTHORNE	954.83	42.33	0.0
TEN YR PROD= 1080	MC ALESTER	679.28	29.09	11.1
CASE NO. 106	NEWPORT	680.41	27.01	*****
( 0/ 75/100)	HAWTHORNE	1010.36	42.49	0.0
TEN YR PROD= 1890	MC ALESTER	729.78	29.30	10.8
CASE NO. 107	NEWPORT	661.86	26.91	*****
( 0/ 75/ 75)	HAWTHORNE	989.55	42.43	0.0
TEN YR PROD= 1620	MC ALESTER	710.86	29.21	10.9
CASE NO. 108	NEWPORT	643.31	26.83	*****
( 0/ 75/ 50)	HAWTHORNE	968.74	42.37	0.0
TEN YR PROD= 1350	MC ALESTER	691.94	29.14	11.0
CASE NO. 109	NEWPORT	624.76	26.76	*****
( 0/ 75/ 25)	HAWTHORNE	947.94	42.32	0.0
TEN YR PROD= 1080	MC ALESTER	673.02	29.07	11.1
CASE NO. 110	NEWPORT	606.22	26.71	*****
( 0/ 75/ 0)	HAWTHORNE	927.13	42.28	0.0
TEN YR PROD= 810	MC ALESTER	654.10	29.02	11.2

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= -5%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 111	NEWPORT	655.72	26.88	*****
( 0/ 50/100)	HAWTHORNE	982.66	42.41	0.0
TEN YR PROD= 1620	MC ALESTER	704.60	29.19	10.9
CASE NO. 112	NEWPORT	637.17	26.81	*****
( 0/ 50/ 75)	HAWTHORNE	961.86	42.35	0.0
TEN YR PROD= 1350	MC ALESTER	685.68	29.12	11.0
CASE NO. 113	NEWPORT	618.63	26.74	*****
( 0/ 50/ 50)	HAWTHORNE	941.05	42.30	0.0
TEN YR PROD= 1080	MC ALESTER	666.75	29.05	11.1
CASE NO. 114	NEWPORT	600.08	26.69	*****
( 0/ 50/ 25)	HAWTHORNE	920.24	42.26	0.0
TEN YR PROD= 810	MC ALESTER	647.83	29.01	11.3
CASE NO. 115	NEWPORT	581.53	26.65	*****
( 0/ 50/ 0)	HAWTHORNE	899.44	42.24	0.0
TEN YR PROD= 540	MC ALESTER	628.91	28.97	11.4
CASE NO. 116	NEWPORT	631.03	26.79	*****
( 0/ 25/100)	HAWTHORNE	954.97	42.33	0.0
TEN YR PROD= 1350	MC ALESTER	679.41	29.09	11.1
CASE NO. 117	NEWPORT	612.49	26.73	*****
( 0/ 25/ 75)	HAWTHORNE	934.16	42.29	0.0
TEN YR PROD= 1080	MC ALESTER	660.49	29.04	11.2
CASE NO. 118	NEWPORT	593.94	26.68	*****
( 0/ 25/ 50)	HAWTHORNE	913.36	42.25	0.0
TEN YR PROD= 810	MC ALESTER	641.57	28.99	11.3
CASE NO. 119	NEWPORT	575.39	26.64	*****
( 0/ 25/ 25)	HAWTHORNE	892.55	42.23	0.0
TEN YR PROD= 540	MC ALESTER	622.65	28.96	11.5
CASE NO. 120	NEWPORT	556.84	26.62	*****
( 0/ 25/ 0)	HAWTHORNE	871.74	42.21	0.0
TEN YR PROD= 270	MC ALESTER	603.73	28.94	11.7



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= -5%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 121	NEWPORT	606.35	26.71	*****
( 0/ 0/100)	HAWTHORNE	927.28	42.28	0.0
TEN YR PROD= 1080	MC ALESTER	654.23	29.02	11.2
CASE NO. 122	NEWPORT	587.80	25.66	*****
( 0/ 0/ 75)	HAWTHORNE	906.47	42.24	0.0
TEN YR PROD= 810	MC ALESTER	635.31	28.98	11.4
CASE NO. 123	NEWPORT	569.25	26.63	*****
( 0/ 0/ 50)	HAWTHORNE	885.66	42.22	0.0
TEN YR PROD= 540	MC ALESTER	616.39	28.95	11.5
CASE NO. 124	NEWPORT	550.70	26.61	*****
( 0/ 0/ 25)	HAWTHORNE	864.86	42.21	0.0
TEN YR PROD= 270	MC ALESTER	597.47	28.93	11.7
CASE NO. 125	NEWPORT	532.15	26.61	*****
( 0/ 0/ 0)	HAWTHORNE	844.05	42.20	0.0
TEN YR PROD= 0	MC ALESTER	578.55	28.93	11.9

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RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 5%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 1	NEWPORT	945.41	31.44	47.8
(100/100/100)	HAWTHORNE	1244.79	43.87	0.0
TEN YR PROD= 3600	MC ALESTER	942.96	31.03	*****
CASE NO. 2	NEWPORT	926.87	31.24	47.4
(100/100/ 75)	HAWTHORNE	1223.99	43.71	0.0
TEN YR PROD= 3330	MC ALESTER	924.04	30.83	*****
CASE NO. 3	NEWPORT	908.32	31.05	47.1
(100/100/ 50)	HAWTHORNE	1203.18	43.55	0.0
TEN YR PROD= 3060	MC ALESTER	905.12	30.63	*****
CASE NO. 4	NEWPORT	889.77	30.87	46.7
(100/100/ 25)	HAWTHORNE	1182.37	43.40	0.0
TEN YR PROD= 2790	MC ALESTER	886.20	30.44	*****
CASE NO. 5	NEWPORT	871.22	30.70	46.4
(100/100/ 0)	HAWTHORNE	1161.57	43.26	0.0
TEN YR PROD= 2520	MC ALESTER	867.28	30.27	*****
CASE NO. 6	NEWPORT	920.73	31.18	47.3
(100/ 75/100)	HAWTHORNE	1217.10	43.65	0.0
TEN YR PROD= 3330	MC ALESTER	917.78	30.76	*****
CASE NO. 7	NEWPORT	902.18	30.99	47.0
(100/ 75/ 75)	HAWTHORNE	1196.29	43.50	0.0
TEN YR PROD= 3060	MC ALESTER	898.86	30.57	*****
CASE NO. 8	NEWPORT	883.63	30.81	46.6
(100/ 75/ 50)	HAWTHORNE	1175.49	43.35	0.0
TEN YR PROD= 2790	MC ALESTER	879.94	30.38	*****
CASE NO. 9	NEWPORT	865.08	30.65	46.2
(100/ 75/ 25)	HAWTHORNE	1154.68	43.21	0.0
TEN YR PROD= 2520	MC ALESTER	861.02	30.21	*****
CASE NO. 10	NEWPORT	846.53	30.49	45.9
(100/ 75/ 0)	HAWTHORNE	1133.87	43.08	0.0
TEN YR PROD= 2250	MC ALESTER	842.10	30.05	*****

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RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 5%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 11	NEWPORT	896.04	30.93	46.8
(100/ 50/100)	HAWTHORNE	1189.41	43.45	0.0
TEN YR PROD= 3060	MC ALESTER	892.59	30.50	*****
CASE NO. 12	NEWPORT	877.49	30.76	46.5
(100/ 50/ 75)	HAWTHORNE	1168.60	43.31	0.0
TEN YR PROD= 2790	MC ALESTER	873.67	30.32	*****
CASE NO. 13	NEWPORT	858.94	30.59	46.1
(100/ 50/ 50)	HAWTHORNE	1147.79	43.17	0.0
TEN YR PROD= 2520	MC ALESTER	854.75	30.15	*****
CASE NO. 14	NEWPORT	840.39	30.44	45.8
(100/ 50/ 25)	HAWTHORNE	1126.99	43.04	0.0
TEN YR PROD= 2250	MC ALESTER	835.83	30.00	*****
CASE NO. 15	NEWPORT	821.85	30.30	45.4
(100/ 50/ 0)	HAWTHORNE	1106.18	42.93	0.0
TEN YR PROD= 1980	MC ALESTER	816.91	29.85	*****
CASE NO. 16	NEWPORT	871.35	30.70	46.4
(100/ 25/100)	HAWTHORNE	1161.71	43.26	0.0
TEN YR PROD= 2790	MC ALESTER	867.41	30.27	*****
CASE NO. 17	NEWPORT	852.80	30.54	46.0
(100/ 25/ 75)	HAWTHORNE	1140.91	43.13	0.0
TEN YR PROD= 2520	MC ALESTER	848.49	30.10	*****
CASE NO. 18	NEWPORT	834.25	30.39	45.6
(100/ 25/ 50)	HAWTHORNE	1120.10	43.00	0.0
TEN YR PROD= 2250	MC ALESTER	829.57	29.94	*****
CASE NO. 19	NEWPORT	815.71	30.25	45.3
(100/ 25/ 25)	HAWTHORNE	1099.29	42.89	0.0
TEN YR PROD= 1980	MC ALESTER	810.65	29.80	*****
CASE NO. 20	NEWPORT	797.16	30.12	44.9
(100/ 25/ 0)	HAWTHORNE	1078.49	42.78	0.0
TEN YR PROD= 1710	MC ALESTER	791.73	29.66	*****

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 5%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 21	NEWPORT	846.66	30.49	45.9
(100/ 0/100)	HAWTHORNE	1134.02	43.09	0.0
TEN YR PROD= 2520	MC ALESTER	842.23	30.05	*****
CASE NO. 22	NEWPORT	828.11	30.34	45.5
(100/ 0/ 75)	HAWTHORNE	1113.21	42.96	0.0
TEN YR PROD= 2250	MC ALESTER	823.31	29.90	*****
CASE NO. 23	NEWPORT	809.57	30.21	45.1
(100/ 0/ 50)	HAWTHORNE	1092.41	42.85	0.0
TEN YR PROD= 1980	MC ALESTER	804.39	29.75	*****
CASE NO. 24	NEWPORT	791.02	30.08	44.8
(100/ 0/ 25)	HAWTHORNE	1071.60	42.75	0.0
TEN YR PROD= 1710	MC ALESTER	785.47	29.62	*****
CASE NO. 25	NEWPORT	772.47	29.96	44.4
(100/ 0/ 0)	HAWTHORNE	1050.79	42.65	0.0
TEN YR PROD= 1440	MC ALESTER	766.55	29.50	*****
CASE NO. 26	NEWPORT	899.34	30.96	46.9
( 75/100/100)	HAWTHORNE	1193.11	43.48	0.0
TEN YR PROD= 3240	MC ALESTER	895.96	30.54	*****
CASE NO. 27	NEWPORT	880.79	30.79	46.5
( 75/100/ 75)	HAWTHORNE	1172.30	43.33	0.0
TEN YR PROD= 2970	MC ALESTER	877.04	30.36	*****
CASE NO. 28	NEWPORT	862.24	30.62	46.2
( 75/100/ 50)	HAWTHORNE	1151.49	43.19	0.0
TEN YR PROD= 2700	MC ALESTER	858.12	30.18	*****
CASE NO. 29	NEWPORT	843.69	30.47	45.8
( 75/100/ 25)	HAWTHORNE	1130.69	43.07	0.0
TEN YR PROD= 2430	MC ALESTER	839.20	30.02	*****
CASE NO. 30	NEWPORT	825.15	30.32	45.4
( 75/100/ 0)	HAWTHORNE	1109.88	42.95	0.0
TEN YR PROD= 2160	MC ALESTER	820.28	29.87	*****



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RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
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 INCREASE IN NEWPORT AAP COSTS  
 CONST= 5%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 31	NEWPORT	874.65	30.73	46.4
( 75/ 75/100)	HAWTHORNE	1165.41	43.28	0.0
TEN YR PROD= 2970	MC ALESTER	870.78	30.30	*****
CASE NO. 32	NEWPORT	856.10	30.57	46.1
( 75/ 75/ 75)	HAWTHORNE	1144.61	43.15	0.0
TEN YR PROD= 2700	MC ALESTER	851.86	30.13	*****
CASE NO. 33	NEWPORT	837.55	30.42	45.7
( 75/ 75/ 50)	HAWTHORNE	1123.80	43.02	0.0
TEN YR PROD= 2430	MC ALESTER	832.94	29.97	*****
CASE NO. 34	NEWPORT	819.01	30.27	45.3
( 75/ 75/ 25)	HAWTHORNE	1102.99	42.91	0.0
TEN YR PROD= 2160	MC ALESTER	814.02	29.82	*****
CASE NO. 35	NEWPORT	800.46	30.14	45.0
( 75/ 75/ 0)	HAWTHORNE	1082.19	42.80	0.0
TEN YR PROD= 1890	MC ALESTER	795.10	29.69	*****
CASE NO. 36	NEWPORT	849.96	30.52	45.9
( 75/ 50/100)	HAWTHORNE	1137.72	43.11	0.0
TEN YR PROD= 2700	MC ALESTER	845.59	30.08	*****
CASE NO. 37	NEWPORT	831.41	30.37	45.6
( 75/ 50/ 75)	HAWTHORNE	1116.91	42.99	0.0
TEN YR PROD= 2430	MC ALESTER	826.67	29.92	*****
CASE NO. 38	NEWPORT	812.87	30.23	45.2
( 75/ 50/ 50)	HAWTHORNE	1096.11	42.87	0.0
TEN YR PROD= 2160	MC ALESTER	807.75	29.78	*****
CASE NO. 39	NEWPORT	794.32	30.10	44.8
( 75/ 50/ 25)	HAWTHORNE	1075.30	42.77	0.0
TEN YR PROD= 1890	MC ALESTER	788.83	29.65	*****
CASE NO. 40	NEWPORT	775.77	29.98	44.5
( 75/ 50/ 0)	HAWTHORNE	1054.49	42.67	0.0
TEN YR PROD= 1620	MC ALESTER	769.91	29.52	*****



ROX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
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 CONST= 5%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 41	NEWPORT	825.28	30.32	45.5
( 75/ 25/100)	HAWTHORNE	1110.03	42.95	0.0
TEN YR PROD= 2430	MC ALESTER	820.41	29.87	*****
CASE NO. 42	NEWPORT	806.73	30.19	45.1
( 75/ 25/ 75)	HAWTHORNE	1089.22	42.84	0.0
TEN YR PROD= 2160	MC ALESTER	801.49	29.73	*****
CASE NO. 43	NEWPORT	788.18	30.06	44.7
( 75/ 25/ 50)	HAWTHORNE	1068.41	42.73	0.0
TEN YR PROD= 1890	MC ALESTER	782.57	29.60	*****
CASE NO. 44	NEWPORT	769.63	29.95	44.3
( 75/ 25/ 25)	HAWTHORNE	1047.61	42.64	0.0
TEN YR PROD= 1620	MC ALESTER	763.65	29.48	*****
CASE NO. 45	NEWPORT	751.08	29.84	44.0
( 75/ 25/ 0)	HAWTHORNE	1026.80	42.56	0.0
TEN YR PROD= 1350	MC ALESTER	744.73	29.38	*****
CASE NO. 46	NEWPORT	800.59	30.14	45.0
( 75/ 0/100)	HAWTHORNE	1082.33	42.80	0.0
TEN YR PROD= 2160	MC ALESTER	795.23	29.69	*****
CASE NO. 47	NEWPORT	782.04	30.02	44.6
( 75/ 0/ 75)	HAWTHORNE	1061.53	42.70	0.0
TEN YR PROD= 1890	MC ALESTER	776.31	29.56	*****
CASE NO. 48	NEWPORT	763.49	29.91	44.2
( 75/ 0/ 50)	HAWTHORNE	1040.72	42.61	0.0
TEN YR PROD= 1620	MC ALESTER	757.39	29.45	*****
CASE NO. 49	NEWPORT	744.94	29.81	43.8
( 75/ 0/ 25)	HAWTHORNE	1019.91	42.53	0.0
TEN YR PROD= 1350	MC ALESTER	738.47	29.34	*****
CASE NO. 50	NEWPORT	726.40	29.72	43.5
( 75/ 0/ 0)	HAWTHORNE	999.11	42.46	0.0
TEN YR PROD= 1080	MC ALESTER	719.55	29.25	*****

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 5%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 51 ( 50/100/100)	NEWPORT HAWTHORNE	853.26 1141.42	30.55 43.13	46.0 0.0
TEN YR PROD= 2880	MC ALESTER	848.96	30.10	*****
CASE NO. 52 ( 50/100/ 75)	NEWPORT HAWTHORNE	834.72 1120.62	30.39 43.01	45.6 0.0
TEN YR PROD= 2610	MC ALESTER	830.04	29.95	*****
CASE NO. 53 ( 50/100/ 50)	NEWPORT HAWTHORNE	816.17 1099.81	30.25 42.89	45.3 0.0
TEN YR PROD= 2340	MC ALESTER	811.12	29.80	*****
CASE NO. 54 ( 50/100/ 25)	NEWPORT HAWTHORNE	797.62 1079.00	30.12 42.78	44.9 0.0
TEN YR PROD= 2070	MC ALESTER	792.20	29.67	*****
CASE NO. 55 ( 50/100/ 0)	NEWPORT HAWTHORNE	779.07 1058.20	30.00 42.69	44.5 0.0
TEN YR PROD= 1800	MC ALESTER	773.28	29.54	*****
CASE NO. 56 ( 50/ 75/100)	NEWPORT HAWTHORNE	828.58 1113.73	30.35 42.97	45.5 0.0
TEN YR PROD= 2610	MC ALESTER	823.78	29.90	*****
CASE NO. 57 ( 50/ 75/ 75)	NEWPORT HAWTHORNE	810.03 1092.92	30.21 42.85	45.1 0.0
TEN YR PROD= 2340	MC ALESTER	804.86	29.76	*****
CASE NO. 58 ( 50/ 75/ 50)	NEWPORT HAWTHORNE	791.48 1072.12	30.08 42.75	44.8 0.0
TEN YR PROD= 2070	MC ALESTER	785.94	29.63	*****
CASE NO. 59 ( 50/ 75/ 25)	NEWPORT HAWTHORNE	772.93 1051.31	29.97 42.66	44.4 0.0
TEN YR PROD= 1800	MC ALESTER	767.02	29.51	*****
CASE NO. 60 ( 50/ 75/ 0)	NEWPORT HAWTHORNE	754.38 1030.50	29.86 42.57	44.0 0.0
TEN YR PROD= 1530	MC ALESTER	748.10	29.40	*****

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RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 5%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 61	NEWPORT	803.89	30.17	45.0
( 50/ 50/100)	HAWTHORNE	1086.03	42.82	0.0
TEN YR PROD= 2340	MC ALESTER	798.60	29.71	*****
CASE NO. 62	NEWPORT	785.34	30.04	44.7
( 50/ 50/ 75)	HAWTHORNE	1065.23	42.72	0.0
TEN YR PROD= 2070	MC ALESTER	779.67	29.58	*****
CASE NO. 63	NEWPORT	766.79	29.93	44.3
( 50/ 50/ 50)	HAWTHORNE	1044.42	42.63	0.0
TEN YR PROD= 1800	MC ALESTER	760.75	29.47	*****
CASE NO. 64	NEWPORT	748.24	29.83	43.9
( 50/ 50/ 25)	HAWTHORNE	1023.61	42.54	0.0
TEN YR PROD= 1530	MC ALESTER	741.83	29.36	*****
CASE NO. 65	NEWPORT	729.70	29.74	43.5
( 50/ 50/ 0)	HAWTHORNE	1002.81	42.47	0.0
TEN YR PROD= 1260	MC ALESTER	722.91	29.27	*****
CASE NO. 66	NEWPORT	779.20	30.00	44.5
( 50/ 25/100)	HAWTHORNE	1058.34	42.69	0.0
TEN YR PROD= 2070	MC ALESTER	773.41	29.54	*****
CASE NO. 67	NEWPORT	760.65	29.90	44.2
( 50/ 25/ 75)	HAWTHORNE	1037.53	42.60	0.0
TEN YR PROD= 1800	MC ALESTER	754.49	29.43	*****
CASE NO. 68	NEWPORT	742.10	29.80	43.8
( 50/ 25/ 50)	HAWTHORNE	1016.73	42.52	0.0
TEN YR PROD= 1530	MC ALESTER	735.57	29.33	*****
CASE NO. 69	NEWPORT	723.56	29.71	43.4
( 50/ 25/ 25)	HAWTHORNE	995.92	42.45	0.0
TEN YR PROD= 1260	MC ALESTER	716.65	29.24	*****
CASE NO. 70	NEWPORT	705.01	29.63	43.1
( 50/ 25/ 0)	HAWTHORNE	975.11	42.30	0.0
TEN YR PROD= 990	MC ALESTER	697.73	29.16	*****



## RDX - HMX SITE SELECTION

## FOUR LINE CAPACITY

## COST / SENSITIVITY / RISK

## INCREASE IN NEWPORT AAP COSTS

CONST= 5%, MTLs= 0% UTLs= 0%, LBR= 0%, TRANS= 0%

(COST IN \$MILLION DISCOUNTED AT 10%)

(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 71	NEWPORT	754.51	29.86	44.0
( 50/ 0/100)	HAWTHORNE	1030.65	42.57	0.0
TEN YR PROD= 1800	MC ALESTER	748.23	29.40	*****
CASE NO. 72	NEWPORT	735.96	29.77	43.7
( 50/ 0/ 75)	HAWTHORNE	1009.84	42.49	0.0
TEN YR PROD= 1530	MC ALESTER	729.31	29.30	*****
CASE NO. 73	NEWPORT	717.42	29.68	43.3
( 50/ 0/ 50)	HAWTHORNE	989.03	42.42	0.0
TEN YR PROD= 1260	MC ALESTER	710.39	29.21	*****
CASE NO. 74	NEWPORT	698.87	29.61	42.9
( 50/ 0/ 25)	HAWTHORNE	968.23	42.37	0.0
TEN YR PROD= 990	MC ALESTER	691.47	29.14	*****
CASE NO. 75	NEWPORT	680.32	29.55	42.6
( 50/ 0/ 0)	HAWTHORNE	947.42	42.32	0.0
TEN YR PROD= 720	MC ALESTER	672.55	29.07	*****
CASE NO. 76	NEWPORT	807.19	30.19	45.1
( 25/100/100)	HAWTHORNE	1089.74	42.84	0.0
TEN YR PROD= 2520	MC ALESTER	801.96	29.74	*****
CASE NO. 77	NEWPORT	788.64	30.06	44.7
( 25/100/ 75)	HAWTHORNE	1068.93	42.74	0.0
TEN YR PROD= 2250	MC ALESTER	783.04	29.61	*****
CASE NO. 78	NEWPORT	770.09	29.95	44.4
( 25/100/ 50)	HAWTHORNE	1048.12	42.64	0.0
TEN YR PROD= 1980	MC ALESTER	764.12	29.49	*****
CASE NO. 79	NEWPORT	751.54	29.85	44.0
( 25/100/ 25)	HAWTHORNE	1027.32	42.56	0.0
TEN YR PROD= 1710	MC ALESTER	745.20	29.38	*****
CASE NO. 80	NEWPORT	733.00	29.75	43.6
( 25/100/ 0)	HAWTHORNE	1006.51	42.48	0.0
TEN YR PROD= 1440	MC ALESTER	726.28	29.28	*****

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 5%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 81	NEWPORT	782.50	30.02	44.6
( 25/ 75/100)	HAWTHORNE	1062.04	42.70	0.0
TEN YR PROD= 2250	MC ALESTER	776.78	29.57	*****
CASE NO. 82	NEWPORT	763.95	29.91	44.2
( 25/ 75/ 75)	HAWTHORNE	1041.24	42.61	0.0
TEN YR PROD= 1980	MC ALESTER	757.86	29.45	*****
CASE NO. 83	NEWPORT	745.40	29.81	43.9
( 25/ 75/ 50)	HAWTHORNE	1020.43	42.53	0.0
TEN YR PROD= 1710	MC ALESTER	738.94	29.35	*****
CASE NO. 84	NEWPORT	726.86	29.72	43.5
( 25/ 75/ 25)	HAWTHORNE	999.62	42.46	0.0
TEN YR PROD= 1440	MC ALESTER	720.02	29.25	*****
CASE NO. 85	NEWPORT	708.31	29.65	43.1
( 25/ 75/ 0)	HAWTHORNE	978.82	42.39	0.0
TEN YR PROD= 1170	MC ALESTER	701.10	29.17	*****
CASE NO. 86	NEWPORT	757.81	29.88	44.1
( 25/ 50/100)	HAWTHORNE	1034.35	42.58	0.0
TEN YR PROD= 1980	MC ALESTER	751.60	29.42	*****
CASE NO. 87	NEWPORT	739.26	29.78	43.7
( 25/ 50/ 75)	HAWTHORNE	1013.54	42.51	0.0
TEN YR PROD= 1710	MC ALESTER	732.68	29.32	*****
CASE NO. 88	NEWPORT	720.72	29.70	43.4
( 25/ 50/ 50)	HAWTHORNE	992.74	42.44	0.0
TEN YR PROD= 1440	MC ALESTER	713.75	29.23	*****
CASE NO. 89	NEWPORT	702.17	29.62	43.0
( 25/ 50/ 25)	HAWTHORNE	971.93	42.38	0.0
TEN YR PROD= 1170	MC ALESTER	694.83	29.15	*****
CASE NO. 90	NEWPORT	683.62	29.56	42.6
( 25/ 50/ 0)	HAWTHORNE	951.12	42.32	0.0
TEN YR PROD= 900	MC ALESTER	675.91	29.08	*****



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 5%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 91	NEWPORT	733.12	29.75	43.6
( 25/ 25/100)	HAWTHORNE	1006.66	42.48	0.0
TEN YR PROD= 1710	MC ALESTER	726.41	29.28	*****
CASE NO. 92	NEWPORT	714.58	29.67	43.2
( 25/ 25/ 75)	HAWTHORNE	985.85	42.42	0.0
TEN YR PROD= 1440	MC ALESTER	707.49	29.20	*****
CASE NO. 93	NEWPORT	696.03	29.60	42.9
( 25/ 25/ 50)	HAWTHORNE	965.04	42.36	0.0
TEN YR PROD= 1170	MC ALESTER	688.57	29.13	*****
CASE NO. 94	NEWPORT	677.48	29.54	42.5
( 25/ 25/ 25)	HAWTHORNE	944.24	42.31	0.0
TEN YR PROD= 900	MC ALESTER	669.65	29.06	*****
CASE NO. 95	NEWPORT	658.93	29.49	42.1
( 25/ 25/ 0)	HAWTHORNE	923.43	42.27	0.0
TEN YR PROD= 630	MC ALESTER	650.73	29.01	*****
CASE NO. 96	NEWPORT	708.44	29.65	43.1
( 25/ 0/100)	HAWTHORNE	978.96	42.40	0.0
TEN YR PROD= 1440	MC ALESTER	701.23	29.17	*****
CASE NO. 97	NEWPORT	689.89	29.58	42.8
( 25/ 0/ 75)	HAWTHORNE	958.16	42.34	0.0
TEN YR PROD= 1170	MC ALESTER	682.31	29.10	*****
CASE NO. 98	NEWPORT	671.34	29.52	42.4
( 25/ 0/ 50)	HAWTHORNE	937.35	42.29	0.0
TEN YR PROD= 900	MC ALESTER	663.39	29.05	*****
CASE NO. 99	NEWPORT	652.79	29.48	42.0
( 25/ 0/ 25)	HAWTHORNE	916.54	42.26	0.0
TEN YR PROD= 630	MC ALESTER	644.47	29.00	*****
CASE NO. 100	NEWPORT	634.24	29.44	41.7
( 25/ 0/ 0)	HAWTHORNE	895.74	42.23	0.0
TEN YR PROD= 360	MC ALESTER	625.55	28.96	*****

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 5%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 101	NEWPORT	761.11	29.90	44.2
( 0/100/100)	HAWTHORNE	1038.05	42.60	0.0
TEN YR PROD= 2160	MC ALESTER	754.96	29.43	*****
CASE NO. 102	NEWPORT	742.56	29.80	43.8
( 0/100/ 75)	HAWTHORNE	1017.24	42.52	0.0
TEN YR PROD= 1890	MC ALESTER	736.04	29.33	*****
CASE NO. 103	NEWPORT	724.02	29.71	43.4
( 0/100/ 50)	HAWTHORNE	996.44	42.45	0.0
TEN YR PROD= 1620	MC ALESTER	717.12	29.24	*****
CASE NO. 104	NEWPORT	705.47	29.63	43.1
( 0/100/ 25)	HAWTHORNE	975.63	42.39	0.0
TEN YR PROD= 1350	MC ALESTER	698.20	29.16	*****
CASE NO. 105	NEWPORT	686.92	29.57	42.7
( 0/100/ 0)	HAWTHORNE	954.83	42.33	0.0
TEN YR PROD= 1080	MC ALESTER	679.28	29.09	*****
CASE NO. 106	NEWPORT	736.43	29.77	43.7
( 0/ 75/100)	HAWTHORNE	1010.36	42.49	0.0
TEN YR PROD= 1890	MC ALESTER	729.78	29.30	*****
CASE NO. 107	NEWPORT	717.88	29.68	43.3
( 0/ 75/ 75)	HAWTHORNE	989.55	42.43	0.0
TEN YR PROD= 1620	MC ALESTER	710.86	29.21	*****
CASE NO. 108	NEWPORT	699.33	29.61	42.9
( 0/ 75/ 50)	HAWTHORNE	968.74	42.37	0.0
TEN YR PROD= 1350	MC ALESTER	691.94	29.14	*****
CASE NO. 109	NEWPORT	680.78	29.55	42.6
( 0/ 75/ 25)	HAWTHORNE	947.94	42.32	0.0
TEN YR PROD= 1080	MC ALESTER	673.02	29.07	*****
CASE NO. 110	NEWPORT	662.23	29.50	42.2
( 0/ 75/ 0)	HAWTHORNE	927.13	42.28	0.0
TEN YR PROD= 810	MC ALESTER	654.10	29.02	*****

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 5%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 111	NEWPORT	711.74	29.66	43.2
( 0/ 50/100)	HAWTHORNE	982.66	42.41	0.0
TEN YR PROD= 1620	MC ALESTER	704.60	29.19	*****
CASE NO. 112	NEWPORT	693.19	29.59	42.8
( 0/ 50/ 75)	HAWTHORNE	961.86	42.35	0.0
TEN YR PROD= 1350	MC ALESTER	685.68	29.12	*****
CASE NO. 113	NEWPORT	674.64	29.53	42.5
( 0/ 50/ 50)	HAWTHORNE	941.05	42.30	0.0
TEN YR PROD= 1080	MC ALESTER	666.75	29.05	*****
CASE NO. 114	NEWPORT	656.09	29.48	42.1
( 0/ 50/ 25)	HAWTHORNE	920.24	42.26	0.0
TEN YR PROD= 810	MC ALESTER	647.83	29.01	*****
CASE NO. 115	NEWPORT	637.54	29.45	41.7
( 0/ 50/ 0)	HAWTHORNE	899.44	42.24	0.0
TEN YR PROD= 540	MC ALESTER	628.91	28.97	*****
CASE NO. 116	NEWPORT	687.05	29.57	42.7
( 0/ 25/100)	HAWTHORNE	954.97	42.33	0.0
TEN YR PROD= 1350	MC ALESTER	679.41	29.09	*****
CASE NO. 117	NEWPORT	668.50	29.51	42.3
( 0/ 25/ 75)	HAWTHORNE	934.16	42.29	0.0
TEN YR PROD= 1080	MC ALESTER	660.49	29.04	*****
CASE NO. 118	NEWPORT	649.95	29.47	42.0
( 0/ 25/ 50)	HAWTHORNE	913.36	42.25	0.0
TEN YR PROD= 810	MC ALESTER	641.57	28.99	*****
CASE NO. 119	NEWPORT	631.41	29.44	41.6
( 0/ 25/ 25)	HAWTHORNE	892.55	42.23	0.0
TEN YR PROD= 540	MC ALESTER	622.65	28.96	*****
CASE NO. 120	NEWPORT	612.86	29.42	41.2
( 0/ 25/ 0)	HAWTHORNE	871.74	42.21	0.0
TEN YR PROD= 270	MC ALESTER	603.73	28.94	*****

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 5%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 121	NEWPORT	662.36	29.50	42.2
( 0/ 0/100)	HAWTHORNE	927.28	42.28	0.0
TEN YR PROD= 1080	MC ALESTER	654.23	29.02	*****
CASE NO. 122	NEWPORT	643.81	29.46	41.8
( 0/ 0/ 75)	HAWTHORNE	906.47	42.24	0.0
TEN YR PROD= 810	MC ALESTER	635.31	28.98	*****
CASE NO. 123	NEWPORT	625.27	29.43	41.5
( 0/ 0/ 50)	HAWTHORNE	885.66	42.22	0.0
TEN YR PROD= 540	MC ALESTER	616.39	28.95	*****
CASE NO. 124	NEWPORT	606.72	29.41	41.1
( 0/ 0/ 25)	HAWTHORNE	864.86	42.21	0.0
TEN YR PROD= 270	MC ALESTER	597.47	28.93	*****
CASE NO. 125	NEWPORT	588.17	29.41	40.8
( 0/ 0/ 0)	HAWTHORNE	844.05	42.20	0.0
TEN YR PROD= 0	MC ALESTER	578.55	28.93	*****

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RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 10%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 1	NEWPORT	973.42	32.76	25.0
(100/100/100)	HAWTHORNE	1244.79	43.87	0.0
TEN YR PROD= 3600	MC ALESTER	942.96	31.03	*****
CASE NO. 2	NEWPORT	954.87	32.56	24.6
(100/100/ 75)	HAWTHORNE	1223.99	43.71	0.0
TEN YR PROD= 3330	MC ALESTER	924.04	30.83	*****
CASE NO. 3	NEWPORT	936.33	32.38	24.2
(100/100/ 50)	HAWTHORNE	1203.18	43.55	0.0
TEN YR PROD= 3060	MC ALESTER	905.12	30.63	*****
CASE NO. 4	NEWPORT	917.78	32.21	23.8
(100/100/ 25)	HAWTHORNE	1182.37	43.40	0.0
TEN YR PROD= 2790	MC ALESTER	886.20	30.44	*****
CASE NO. 5	NEWPORT	899.23	32.05	23.4
(100/100/ 0)	HAWTHORNE	1161.57	43.26	0.0
TEN YR PROD= 2520	MC ALESTER	867.28	30.27	*****
CASE NO. 6	NEWPORT	948.73	32.50	24.5
(100/ 75/100)	HAWTHORNE	1217.10	43.65	0.0
TEN YR PROD= 3330	MC ALESTER	917.78	30.76	*****
CASE NO. 7	NEWPORT	930.19	32.32	24.1
(100/ 75/ 75)	HAWTHORNE	1196.29	43.50	0.0
TEN YR PROD= 3060	MC ALESTER	898.86	30.57	*****
CASE NO. 8	NEWPORT	911.64	32.15	23.7
(100/ 75/ 50)	HAWTHORNE	1175.49	43.35	0.0
TEN YR PROD= 2790	MC ALESTER	879.94	30.38	*****
CASE NO. 9	NEWPORT	893.09	31.99	23.3
(100/ 75/ 25)	HAWTHORNE	1154.68	43.21	0.0
TEN YR PROD= 2520	MC ALESTER	861.02	30.21	*****
CASE NO. 10	NEWPORT	874.54	31.84	22.9
(100/ 75/ 0)	HAWTHORNE	1133.87	43.08	0.0
TEN YR PROD= 2250	MC ALESTER	842.10	30.05	*****

RDX - HMX SITE SELECTION  
FOUR LINE CAPACITY  
COST / SENSITIVITY / RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 10%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 11	NEWPORT	924.05	32.27	23.9
(100/ 50/100)	HAWTHORNE	1189.41	43.45	0.0
TEN YR PROD= 3060	MC ALESTER	892.59	30.50	*****
CASE NO. 12	NEWPORT	905.50	32.10	23.6
(100/ 50/ 75)	HAWTHORNE	1168.60	43.31	0.0
TEN YR PROD= 2790	MC ALESTER	873.67	30.32	*****
CASE NO. 13	NEWPORT	886.95	31.94	23.2
(100/ 50/ 50)	HAWTHORNE	1147.79	43.17	0.0
TEN YR PROD= 2520	MC ALESTER	854.75	30.15	*****
CASE NO. 14	NEWPORT	868.40	31.79	22.8
(100/ 50/ 25)	HAWTHORNE	1126.99	43.04	0.0
TEN YR PROD= 2250	MC ALESTER	835.83	30.00	*****
CASE NO. 15	NEWPORT	849.85	31.66	22.4
(100/ 50/ 0)	HAWTHORNE	1106.18	42.93	0.0
TEN YR PROD= 1980	MC ALESTER	816.91	29.65	*****
CASE NO. 16	NEWPORT	899.36	32.05	23.4
(100/ 25/100)	HAWTHORNE	1161.71	43.26	0.0
TEN YR PROD= 2790	MC ALESTER	867.41	30.27	*****
CASE NO. 17	NEWPORT	880.81	31.89	23.1
(100/ 25/ 75)	HAWTHORNE	1140.91	43.13	0.0
TEN YR PROD= 2520	MC ALESTER	848.49	30.10	*****
CASE NO. 18	NEWPORT	862.26	31.75	22.7
(100/ 25/ 50)	HAWTHORNE	1120.10	43.00	0.0
TEN YR PROD= 2250	MC ALESTER	829.57	29.94	*****
CASE NO. 19	NEWPORT	843.71	31.61	22.3
(100/ 25/ 25)	HAWTHORNE	1099.29	42.89	0.0
TEN YR PROD= 1980	MC ALESTER	810.65	29.80	*****
CASE NO. 20	NEWPORT	825.17	31.49	22.0
(100/ 25/ 0)	HAWTHORNE	1078.49	42.78	0.0
TEN YR PROD= 1710	MC ALESTER	791.73	29.66	*****

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RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 10%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 21	NEWPORT	874.67	31.84	22.9
(100/ 0/100)	HAWTHORNE	1134.02	43.09	0.0
TEN YR PROD= 2520	MC ALESTER	842.23	30.05	*****
CASE NO. 22	NEWPORT	856.12	31.70	22.6
(100/ 0/ 75)	HAWTHORNE	1113.21	42.96	0.0
TEN YR PROD= 2250	MC ALESTER	823.31	29.90	*****
CASE NO. 23	NEWPORT	837.57	31.57	22.2
(100/ 0/ 50)	HAWTHORNE	1092.41	42.85	0.0
TEN YR PROD= 1980	MC ALESTER	804.39	29.75	*****
CASE NO. 24	NEWPORT	819.03	31.45	21.9
(100/ 0/ 25)	HAWTHORNE	1071.60	42.75	0.0
TEN YR PROD= 1710	MC ALESTER	785.47	29.62	*****
CASE NO. 25	NEWPORT	800.48	31.34	21.5
(100/ 0/ 0)	HAWTHORNE	1050.79	42.65	0.0
TEN YR PROD= 1440	MC ALESTER	766.55	29.50	*****
CASE NO. 26	NEWPORT	927.35	32.30	24.0
( 75/100/100)	HAWTHORNE	1193.11	43.48	0.0
TEN YR PROD= 3240	MC ALESTER	895.96	30.54	*****
CASE NO. 27	NEWPORT	908.80	32.13	23.6
( 75/100/ 75)	HAWTHORNE	1172.30	43.33	0.0
TEN YR PROD= 2970	MC ALESTER	877.04	30.36	*****
CASE NO. 28	NEWPORT	890.25	31.97	23.2
( 75/100/ 50)	HAWTHORNE	1151.49	43.19	0.0
TEN YR PROD= 2700	MC ALESTER	858.12	30.18	*****
CASE NO. 29	NEWPORT	871.70	31.82	22.9
( 75/100/ 25)	HAWTHORNE	1130.69	43.07	0.0
TEN YR PROD= 2430	MC ALESTER	839.20	30.02	*****
CASE NO. 30	NEWPORT	853.15	31.68	22.5
( 75/100/ 0)	HAWTHORNE	1109.88	42.95	0.0
TEN YR PROD= 2160	MC ALESTER	820.28	29.87	*****



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 10%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 31	NEWPORT	902.66	32.07	23.5
( 75/ 75/100)	HAWTHORNE	1165.41	43.28	0.0
TEN YR PROD= 2970	MC ALESTER	870.78	30.30	*****
CASE NO. 32	NEWPORT	884.11	31.92	23.1
( 75/ 75/ 75)	HAWTHORNE	1144.61	43.15	0.0
TEN YR PROD= 2700	MC ALESTER	851.86	30.13	*****
CASE NO. 33	NEWPORT	865.56	31.77	22.8
( 75/ 75/ 50)	HAWTHORNE	1123.80	43.02	0.0
TEN YR PROD= 2430	MC ALESTER	832.94	29.97	*****
CASE NO. 34	NEWPORT	847.01	31.64	22.4
( 75/ 75/ 25)	HAWTHORNE	1102.99	42.91	0.0
TEN YR PROD= 2160	MC ALESTER	814.02	29.82	*****
CASE NO. 35	NEWPORT	828.47	31.51	22.0
( 75/ 75/ 0)	HAWTHORNE	1082.19	42.80	0.0
TEN YR PROD= 1890	MC ALESTER	795.10	29.69	*****
CASE NO. 36	NEWPORT	877.97	31.87	23.0
( 75/ 50/100)	HAWTHORNE	1137.72	43.11	0.0
TEN YR PROD= 2700	MC ALESTER	845.59	30.08	*****
CASE NO. 37	NEWPORT	859.42	31.73	22.6
( 75/ 50/ 75)	HAWTHORNE	1116.91	42.99	0.0
TEN YR PROD= 2430	MC ALESTER	826.67	29.92	*****
CASE NO. 38	NEWPORT	840.87	31.59	22.3
( 75/ 50/ 50)	HAWTHORNE	1096.11	42.87	0.0
TEN YR PROD= 2160	MC ALESTER	807.75	29.78	*****
CASE NO. 39	NEWPORT	822.33	31.47	21.9
( 75/ 50/ 25)	HAWTHORNE	1075.30	42.77	0.0
TEN YR PROD= 1890	MC ALESTER	788.83	29.65	*****
CASE NO. 40	NEWPORT	803.78	31.36	21.6
( 75/ 50/ 0)	HAWTHORNE	1054.49	42.67	0.0
TEN YR PROD= 1620	MC ALESTER	769.91	29.52	*****



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 10%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 41	NEWPORT	853.28	31.68	22.5
( 75/ 25/100)	HAWTHORNE	1110.03	42.95	0.0
TEN YR PROD= 2430	MC ALESTER	820.41	29.87	*****
CASE NO. 42	NEWPORT	834.74	31.55	22.2
( 75/ 25/ 75)	HAWTHORNE	1089.22	42.84	0.0
TEN YR PROD= 2160	MC ALESTER	801.49	29.73	*****
CASE NO. 43	NEWPORT	816.19	31.43	21.8
( 75/ 25/ 50)	HAWTHORNE	1068.41	42.73	0.0
TEN YR PROD= 1890	MC ALESTER	782.57	29.60	*****
CASE NO. 44	NEWPORT	797.64	31.32	21.5
( 75/ 25/ 25)	HAWTHORNE	1047.61	42.64	0.0
TEN YR PROD= 1620	MC ALESTER	763.65	29.48	*****
CASE NO. 45	NEWPORT	779.09	31.22	21.1
( 75/ 25/ 0)	HAWTHORNE	1026.80	42.56	0.0
TEN YR PROD= 1350	MC ALESTER	744.73	29.38	*****
CASE NO. 46	NEWPORT	828.60	31.51	22.0
( 75/ 0/100)	HAWTHORNE	1082.33	42.80	0.0
TEN YR PROD= 2160	MC ALESTER	795.23	29.69	*****
CASE NO. 47	NEWPORT	810.05	31.39	21.7
( 75/ 0/ 75)	HAWTHORNE	1061.53	42.70	0.0
TEN YR PROD= 1890	MC ALESTER	776.31	29.56	*****
CASE NO. 48	NEWPORT	791.50	31.29	21.4
( 75/ 0/ 50)	HAWTHORNE	1040.72	42.61	0.0
TEN YR PROD= 1620	MC ALESTER	757.39	29.45	*****
CASE NO. 49	NEWPORT	772.95	31.19	21.0
( 75/ 0/ 25)	HAWTHORNE	1019.91	42.53	0.0
TEN YR PROD= 1350	MC ALESTER	738.47	29.34	*****
CASE NO. 50	NEWPORT	754.40	31.11	20.7
( 75/ 0/ 0)	HAWTHORNE	999.11	42.46	0.0
TEN YR PROD= 1080	MC ALESTER	719.55	29.25	*****

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 10%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 51	NEWPORT	881.27	31.90	23.1
( 50/100/100)	HAWTHORNE	1141.42	43.13	0.0
TEN YR PROD= 2880	MC ALESTER	848.96	30.10	*****
CASE NO. 52	NEWPORT	862.72	31.75	22.7
( 50/100/ 75)	HAWTHORNE	1120.62	43.01	0.0
TEN YR PROD= 2610	MC ALESTER	830.04	29.95	*****
CASE NO. 53	NEWPORT	844.18	31.62	22.3
( 50/100/ 50)	HAWTHORNE	1099.81	42.89	0.0
TEN YR PROD= 2340	MC ALESTER	811.12	29.80	*****
CASE NO. 54	NEWPORT	825.63	31.49	22.0
( 50/100/ 25)	HAWTHORNE	1079.00	42.78	0.0
TEN YR PROD= 2070	MC ALESTER	792.20	29.67	*****
CASE NO. 55	NEWPORT	807.08	31.38	21.6
( 50/100/ 0)	HAWTHORNE	1058.20	42.69	0.0
TEN YR PROD= 1800	MC ALESTER	773.28	29.54	*****
CASE NO. 56	NEWPORT	856.58	31.71	22.6
( 50/ 75/100)	HAWTHORNE	1113.73	42.97	0.0
TEN YR PROD= 2610	MC ALESTER	823.78	29.90	*****
CASE NO. 57	NEWPORT	838.04	31.57	22.2
( 50/ 75/ 75)	HAWTHORNE	1092.92	42.85	0.0
TEN YR PROD= 2340	MC ALESTER	804.86	29.76	*****
CASE NO. 58	NEWPORT	819.49	31.45	21.9
( 50/ 75/ 50)	HAWTHORNE	1072.12	42.75	0.0
TEN YR PROD= 2070	MC ALESTER	785.94	29.63	*****
CASE NO. 59	NEWPORT	800.94	31.34	21.5
( 50/ 75/ 25)	HAWTHORNE	1051.31	42.66	0.0
TEN YR PROD= 1800	MC ALESTER	767.02	29.51	*****
CASE NO. 60	NEWPORT	782.39	31.24	21.2
( 50/ 75/ 0)	HAWTHORNE	1030.50	42.57	0.0
TEN YR PROD= 1530	MC ALESTER	748.10	29.40	*****

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 10%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 61	NEWPORT	831.90	31.53	22.1
( 50/ 50/100)	HAWTHORNE	1086.03	42.82	0.0
TEN YR PROD= 2340	MC ALESTER	798.60	29.71	*****
CASE NO. 62	NEWPORT	813.35	31.41	21.8
( 50/ 50/ 75)	HAWTHORNE	1065.23	42.72	0.0
TEN YR PROD= 2070	MC ALESTER	779.67	29.58	*****
CASE NO. 63	NEWPORT	794.80	31.31	21.4
( 50/ 50/ 50)	HAWTHORNE	1044.42	42.63	0.0
TEN YR PROD= 1800	MC ALESTER	760.75	29.47	*****
CASE NO. 64	NEWPORT	776.25	31.21	21.1
( 50/ 50/ 25)	HAWTHORNE	1023.61	42.54	0.0
TEN YR PROD= 1530	MC ALESTER	741.83	29.36	*****
CASE NO. 65	NEWPORT	757.70	31.12	20.8
( 50/ 50/ 0)	HAWTHORNE	1002.81	42.47	0.0
TEN YR PROD= 1260	MC ALESTER	722.91	29.27	*****
CASE NO. 66	NEWPORT	807.21	31.38	21.6
( 50/ 25/100)	HAWTHORNE	1058.34	42.69	0.0
TEN YR PROD= 2070	MC ALESTER	773.41	29.54	*****
CASE NO. 67	NEWPORT	788.06	31.27	21.3
( 50/ 25/ 75)	HAWTHORNE	1037.53	42.60	0.0
TEN YR PROD= 1800	MC ALESTER	754.49	29.43	*****
CASE NO. 68	NEWPORT	770.11	31.18	21.0
( 50/ 25/ 50)	HAWTHORNE	1016.73	42.52	0.0
TEN YR PROD= 1530	MC ALESTER	735.57	29.33	*****
CASE NO. 69	NEWPORT	751.56	31.10	20.7
( 50/ 25/ 25)	HAWTHORNE	995.92	42.45	0.0
TEN YR PROD= 1260	MC ALESTER	716.65	29.24	*****
CASE NO. 70	NEWPORT	733.02	31.02	20.4
( 50/ 25/ 0)	HAWTHORNE	975.11	42.38	0.0
TEN YR PROD= 990	MC ALESTER	697.73	29.16	*****



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 10%, MTLs= 0% UTLs= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 71	NEWPORT	782.52	31.24	21.2
( 50/ 0/100)	HAWTHORNE	1030.65	42.57	0.0
TEN YR PROD= 1800	MC ALESTER	748.23	29.40	*****
CASE NO. 72	NEWPORT	763.97	31.15	20.9
( 50/ 0/ 75)	HAWTHORNE	1009.84	42.49	0.0
TEN YR PROD= 1530	MC ALESTER	729.31	29.30	*****
CASE NO. 73	NEWPORT	745.42	31.07	20.6
( 50/ 0/ 50)	HAWTHORNE	989.03	42.42	0.0
TEN YR PROD= 1260	MC ALESTER	710.39	29.21	*****
CASE NO. 74	NEWPORT	726.88	31.00	20.3
( 50/ 0/ 25)	HAWTHORNE	968.23	42.37	0.0
TEN YR PROD= 990	MC ALESTER	691.47	29.14	*****
CASE NO. 75	NEWPORT	708.33	30.94	20.0
( 50/ 0/ 0)	HAWTHORNE	947.42	42.32	0.0
TEN YR PROD= 720	MC ALESTER	672.55	29.07	*****
CASE NO. 76	NEWPORT	835.20	31.55	22.2
( 25/100/100)	HAWTHORNE	1089.74	42.84	0.0
TEN YR PROD= 2520	MC ALESTER	801.96	29.74	*****
CASE NO. 77	NEWPORT	816.65	31.44	21.8
( 25/100/ 75)	HAWTHORNE	1068.93	42.74	0.0
TEN YR PROD= 2250	MC ALESTER	783.04	29.61	*****
CASE NO. 78	NEWPORT	798.10	31.33	21.5
( 25/100/ 50)	HAWTHORNE	1048.12	42.64	0.0
TEN YR PROD= 1980	MC ALESTER	764.12	29.49	*****
CASE NO. 79	NEWPORT	779.55	31.23	21.2
( 25/100/ 25)	HAWTHORNE	1027.32	42.56	0.0
TEN YR PROD= 1710	MC ALESTER	745.20	29.38	*****
CASE NO. 80	NEWPORT	761.00	31.14	20.8
( 25/100/ 0)	HAWTHORNE	1006.51	42.48	0.0
TEN YR PROD= 1440	MC ALESTER	726.28	29.28	*****



RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 10%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 81	NEWPORT	810.51	31.40	21.7
( 25/ 75/100)	HAWTHORNE	1062.04	42.70	0.0
TEN YR PROD= 2250	MC ALESTER	776.78	29.57	*****
CASE NO. 82	NEWPORT	791.96	31.29	21.4
( 25/ 75/ 75)	HAWTHORNE	1041.24	42.61	0.0
TEN YR PROD= 1980	MC ALESTER	757.86	29.45	*****
CASE NO. 83	NEWPORT	773.41	31.20	21.0
( 25/ 75/ 50)	HAWTHORNE	1020.43	42.53	0.0
TEN YR PROD= 1710	MC ALESTER	738.94	29.35	*****
CASE NO. 84	NEWPORT	754.86	31.11	20.7
( 25/ 75/ 25)	HAWTHORNE	999.62	42.46	0.0
TEN YR PROD= 1440	MC ALESTER	720.02	29.25	*****
CASE NO. 85	NEWPORT	736.32	31.04	20.4
( 25/ 75/ 0)	HAWTHORNE	978.82	42.39	0.0
TEN YR PROD= 1170	MC ALESTER	701.10	29.17	*****
CASE NO. 86	NEWPORT	785.82	31.26	21.3
( 25/ 50/100)	HAWTHORNE	1034.35	42.58	0.0
TEN YR PROD= 1980	MC ALESTER	751.60	29.42	*****
CASE NO. 87	NEWPORT	767.27	31.17	20.9
( 25/ 50/ 75)	HAWTHORNE	1013.54	42.51	0.0
TEN YR PROD= 1710	MC ALESTER	732.68	29.32	*****
CASE NO. 88	NEWPORT	748.72	31.08	20.6
( 25/ 50/ 50)	HAWTHORNE	992.74	42.44	0.0
TEN YR PROD= 1440	MC ALESTER	713.75	29.23	*****
CASE NO. 89	NEWPORT	730.18	31.01	20.3
( 25/ 50/ 25)	HAWTHORNE	971.93	42.38	0.0
TEN YR PROD= 1170	MC ALESTER	694.83	29.15	*****
CASE NO. 90	NEWPORT	711.63	30.95	20.0
( 25/ 50/ 0)	HAWTHORNE	951.12	42.32	0.0
TEN YR PROD= 900	MC ALESTER	675.91	29.08	*****

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 10%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 91	NEWPORT	761.13	31.14	20.8
( 25/ 25/100)	HAWTHORNE	1006.66	42.48	0.0
TEN YR PROD= 1710	MC ALESTER	726.41	29.28	*****
CASE NO. 92	NEWPORT	742.58	31.06	20.5
( 25/ 25/ 75)	HAWTHORNE	985.85	42.42	0.0
TEN YR PROD= 1440	MC ALESTER	707.49	29.20	*****
CASE NO. 93	NEWPORT	724.04	30.95	20.2
( 25/ 25/ 50)	HAWTHORNE	965.04	42.36	0.0
TEN YR PROD= 1170	MC ALESTER	688.57	29.13	*****
CASE NO. 94	NEWPORT	705.49	30.93	19.9
( 25/ 25/ 25)	HAWTHORNE	944.24	42.31	0.0
TEN YR PROD= 900	MC ALESTER	669.65	29.06	*****
CASE NO. 95	NEWPORT	686.94	30.89	19.6
( 25/ 25/ 0)	HAWTHORNE	923.43	42.27	0.0
TEN YR PROD= 630	MC ALESTER	650.73	29.01	*****
CASE NO. 96	NEWPORT	736.45	31.04	20.4
( 25/ 0/100)	HAWTHORNE	978.96	42.40	0.0
TEN YR PROD= 1440	MC ALESTER	701.23	29.17	*****
CASE NO. 97	NEWPORT	717.90	30.97	20.1
( 25/ 0/ 75)	HAWTHORNE	958.16	42.34	0.0
TEN YR PROD= 1170	MC ALESTER	682.31	29.10	*****
CASE NO. 98	NEWPORT	699.35	30.92	19.8
( 25/ 0/ 50)	HAWTHORNE	937.35	42.29	0.0
TEN YR PROD= 900	MC ALESTER	663.39	29.05	*****
CASE NO. 99	NEWPORT	680.80	30.87	19.6
( 25/ 0/ 25)	HAWTHORNE	916.54	42.26	0.0
TEN YR PROD= 630	MC ALESTER	644.47	29.00	*****
CASE NO. 100	NEWPORT	662.25	30.84	19.3
( 25/ 0/ 0)	HAWTHORNE	895.74	42.23	0.0
TEN YR PROD= 360	MC ALESTER	625.55	28.96	*****

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RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 10%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 101	NEWPORT	789.12	31.28	21.3
( 0/100/100)	HAWTHORNE	1038.05	42.60	0.0
TEN YR PROD= 2160	MC ALESTER	754.96	29.43	*****
CASE NO. 102	NEWPORT	770.57	31.18	21.0
( 0/100/ 75)	HAWTHORNE	1017.24	42.52	0.0
TEN YR PROD= 1890	MC ALESTER	736.04	29.33	*****
CASE NO. 103	NEWPORT	752.02	31.10	20.7
( 0/100/ 50)	HAWTHORNE	996.44	42.45	0.0
TEN YR PROD= 1620	MC ALESTER	717.12	29.24	*****
CASE NO. 104	NEWPORT	733.48	31.02	20.4
( 0/100/ 25)	HAWTHORNE	975.63	42.39	0.0
TEN YR PROD= 1350	MC ALESTER	698.20	29.16	*****
CASE NO. 105	NEWPORT	714.93	30.96	20.1
( 0/100/ 0)	HAWTHORNE	954.83	42.33	0.0
TEN YR PROD= 1080	MC ALESTER	679.28	29.09	*****
CASE NO. 106	NEWPORT	764.43	31.15	20.9
( 0/ 75/100)	HAWTHORNE	1010.36	42.49	0.0
TEN YR PROD= 1890	MC ALESTER	729.78	29.30	*****
CASE NO. 107	NEWPORT	745.89	31.07	20.6
( 0/ 75/ 75)	HAWTHORNE	989.55	42.43	0.0
TEN YR PROD= 1620	MC ALESTER	710.86	29.21	*****
CASE NO. 108	NEWPORT	727.34	31.00	20.3
( 0/ 75/ 50)	HAWTHORNE	968.74	42.37	0.0
TEN YR PROD= 1350	MC ALESTER	691.94	29.14	*****
CASE NO. 109	NEWPORT	708.79	30.94	20.0
( 0/ 75/ 25)	HAWTHORNE	947.94	42.32	0.0
TEN YR PROD= 1080	MC ALESTER	673.02	29.07	*****
CASE NO. 110	NEWPORT	690.24	30.90	19.7
( 0/ 75/ 0)	HAWTHORNE	927.13	42.28	0.0
TEN YR PROD= 810	MC ALESTER	654.10	29.02	*****

RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 10%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 111	NEWPORT	739.75	31.05	20.5
( 0/ 50/100)	HAWTHORNE	982.66	42.41	0.0
TEN YR PROD= 1620	MC ALESTER	704.60	29.19	*****
CASE NO. 112	NEWPORT	721.20	30.98	20.2
( 0/ 50/ 75)	HAWTHORNE	961.86	42.35	0.0
TEN YR PROD= 1350	MC ALESTER	685.68	29.12	*****
CASE NO. 113	NEWPORT	702.65	30.93	19.9
( 0/ 50/ 50)	HAWTHORNE	941.05	42.30	0.0
TEN YR PROD= 1080	MC ALESTER	666.75	29.05	*****
CASE NO. 114	NEWPORT	684.10	30.08	19.6
( 0/ 50/ 25)	HAWTHORNE	920.24	42.26	0.0
TEN YR PROD= 810	MC ALESTER	647.83	29.01	*****
CASE NO. 115	NEWPORT	665.55	30.05	19.3
( 0/ 50/ 0)	HAWTHORNE	899.44	42.24	0.0
TEN YR PROD= 540	MC ALESTER	628.91	28.97	*****
CASE NO. 116	NEWPORT	715.06	30.96	20.1
( 0/ 25/100)	HAWTHORNE	954.97	42.33	0.0
TEN YR PROD= 1350	MC ALESTER	679.41	29.09	*****
CASE NO. 117	NEWPORT	696.51	30.91	19.8
( 0/ 25/ 75)	HAWTHORNE	934.16	42.29	0.0
TEN YR PROD= 1080	MC ALESTER	660.49	29.04	*****
CASE NO. 118	NEWPORT	677.96	30.87	19.5
( 0/ 25/ 50)	HAWTHORNE	913.36	42.25	0.0
TEN YR PROD= 810	MC ALESTER	641.57	28.99	*****
CASE NO. 119	NEWPORT	659.41	30.84	19.2
( 0/ 25/ 25)	HAWTHORNE	892.55	42.23	0.0
TEN YR PROD= 540	MC ALESTER	622.65	28.96	*****
CASE NO. 120	NEWPORT	640.87	30.82	19.0
( 0/ 25/ 0)	HAWTHORNE	871.74	42.21	0.0
TEN YR PROD= 270	MC ALESTER	603.73	28.94	*****



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RDX - HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COSI /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 10%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 121	NEWPORT	690.37	30.90	19.7
( 0/ 0/100)	HAWTHORNE	927.28	42.28	0.0
TEN YR PROD= 1080	MC ALESTER	654.23	29.02	*****
CASE NO. 122	NEWPORT	671.82	30.86	19.4
( 0/ 0/ 75)	HAWTHORNE	906.47	42.24	0.0
TEN YR PROD= 810	MC ALESTER	635.31	28.98	*****
CASE NO. 123	NEWPORT	653.27	30.83	19.2
( 0/ 0/ 50)	HAWTHORNE	885.66	42.22	0.0
TEN YR PROD= 540	MC ALESTER	616.39	28.95	*****
CASE NO. 124	NEWPORT	634.73	30.81	18.9
( 0/ 0/ 25)	HAWTHORNE	864.86	42.21	0.0
TEN YR PROD= 270	MC ALESTER	597.47	28.93	*****
CASE NO. 125	NEWPORT	616.18	30.81	18.7
( 0/ 0/ 0)	HAWTHORNE	844.05	42.20	0.0
TEN YR PROD= 0	MC ALESTER	578.55	28.93	*****

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SUPPLEMENTARY RDX/HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 1	NEWPORT	917.41	30.14	0.3
(100/100/100)	MTF	805.83	26.69	*****
TEN YR PROD= 3600	MC ALESTER	942.96	31.03	0.0
CASE NO. 2	NEWPORT	893.86	29.93	0.3
(100/100/ 75)	MTF	789.40	26.47	*****
TEN YR PROD= 3330	MC ALESTER	924.04	30.83	0.0
CASE NO. 3	NEWPORT	880.31	29.73	0.3
(100/100/ 50)	MTF	772.97	26.27	*****
TEN YR PROD= 3060	MC ALESTER	905.12	30.63	0.1
CASE NO. 4	NEWPORT	861.76	29.54	0.4
(100/100/ 25)	MTF	756.55	26.07	*****
TEN YR PROD= 2790	MC ALESTER	886.20	30.44	0.1
CASE NO. 5	NEWPORT	843.21	29.36	0.4
(100/100/ 0)	MTF	740.12	25.89	*****
TEN YR PROD= 2520	MC ALESTER	867.28	30.27	0.1
CASE NO. 6	NEWPORT	892.72	29.86	0.3
(100/ 75/100)	MTF	783.96	26.41	*****
TEN YR PROD= 3330	MC ALESTER	917.78	30.76	0.0
CASE NO. 7	NEWPORT	874.17	29.67	0.4
(100/ 75/ 75)	MTF	767.54	26.20	*****
TEN YR PROD= 3060	MC ALESTER	898.86	30.57	0.1
CASE NO. 8	NEWPORT	855.62	29.48	0.4
(100/ 75/ 50)	MTF	751.11	26.01	*****
TEN YR PROD= 2790	MC ALESTER	879.94	30.38	0.1
CASE NO. 9	NEWPORT	837.07	29.31	0.4
(100/ 75/ 25)	MTF	734.69	25.83	*****
TEN YR PROD= 2520	MC ALESTER	861.02	30.21	0.1
CASE NO. 10	NEWPORT	818.53	29.14	0.5
(100/ 75/ 0)	MTF	718.26	25.66	*****
TEN YR PROD= 2250	MC ALESTER	842.10	30.05	0.1

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SUPPLEMENTARY RDX/HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 0%, LBP= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 11	NEWPORT	868.03	29.60	0.4
(100/ 50/100)	MTF	762.10	26.14	*****
TEN YR PROD= 3060	MC ALESTER	892.59	30.50	0.1
CASE NO. 12	NEWPORT	849.48	29.42	0.4
(100/ 50/ 75)	MTF	745.68	25.95	*****
TEN YR PROD= 2790	MC ALESTER	873.67	30.32	0.1
CASE NO. 13	NEWPORT	830.93	29.25	0.5
(100/ 50/ 50)	MTF	729.25	25.77	*****
TEN YR PROD= 2520	MC ALESTER	854.75	30.15	0.1
CASE NO. 14	NEWPORT	812.39	29.09	0.5
(100/ 50/ 25)	MTF	712.82	25.60	*****
TEN YR PROD= 2250	MC ALESTER	835.83	30.00	0.1
CASE NO. 15	NEWPORT	793.84	28.94	0.6
(100/ 50/ 0)	MTF	696.40	25.45	*****
TEN YR PROD= 1980	MC ALESTER	816.91	29.85	0.1
CASE NO. 16	NEWPORT	843.34	29.36	0.4
(100/ 25/100)	MTF	740.24	25.89	*****
TEN YR PROD= 2790	MC ALESTER	867.41	30.27	0.1
CASE NO. 17	NEWPORT	824.79	29.20	0.5
(100/ 25/ 75)	MTF	723.81	25.71	*****
TEN YR PROD= 2520	MC ALESTER	848.49	30.10	0.1
CASE NO. 18	NEWPORT	806.25	29.04	0.5
(100/ 25/ 50)	MTF	707.39	25.55	*****
TEN YR PROD= 2250	MC ALESTER	829.57	29.94	0.1
CASE NO. 19	NEWPORT	787.10	28.89	0.6
(100/ 25/ 25)	MTF	690.96	25.40	*****
TEN YR PROD= 1980	MC ALESTER	810.65	29.80	0.1
CASE NO. 20	NEWPORT	769.15	28.75	0.7
(100/ 25/ 0)	MTF	674.54	25.25	*****
TEN YR PROD= 1710	MC ALESTER	791.73	29.66	0.1



SUPPLEMENTARY RDX/HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 21	NEWPORT	818.66	29.14	0.5
(100/ 0/100)	MTF	718.38	25.66	*****
TEN YR PROD= 2520	MC ALESTER	842.23	30.05	0.1
CASE NO. 22	NEWPORT	800.11	28.99	0.6
(100/ 0/ 75)	MTF	701.95	25.50	*****
TEN YR PROD= 2250	MC ALESTER	823.31	29.90	0.1
CASE NO. 23	NEWPORT	781.56	28.84	0.6
(100/ 0/ 50)	MTF	685.52	25.35	*****
TEN YR PROD= 1980	MC ALESTER	804.39	29.75	0.1
CASE NO. 24	NEWPORT	763.01	28.71	0.7
(100/ 0/ 25)	MTF	669.10	25.21	*****
TEN YR PROD= 1710	MC ALESTER	785.47	29.62	0.1
CASE NO. 25	NEWPORT	744.46	28.59	0.8
(100/ 0/ 0)	MTF	652.67	25.08	*****
TEN YR PROD= 1440	MC ALESTER	766.55	29.50	0.2
CASE NO. 26	NEWPORT	871.33	29.64	0.4
( 75/100/100)	MTF	765.02	26.17	*****
TEN YR PROD= 3240	MC ALESTER	895.96	30.54	0.1
CASE NO. 27	NEWPORT	852.78	29.45	0.4
( 75/100/ 75)	MTF	748.60	25.98	*****
TEN YR PROD= 2970	MC ALESTER	877.04	30.36	0.1
CASE NO. 28	NEWPORT	834.23	29.28	0.4
( 75/100/ 50)	MTF	732.17	25.80	*****
TEN YR PROD= 2700	MC ALESTER	858.12	30.18	0.1
CASE NO. 29	NEWPORT	815.69	29.12	0.5
( 75/100/ 25)	MTF	715.75	25.63	*****
TEN YR PROD= 2430	MC ALESTER	839.20	30.02	0.1
CASE NO. 30	NEWPORT	797.14	28.96	0.6
( 75/100/ 0)	MTF	699.32	25.47	*****
TEN YR PROD= 2160	MC ALESTER	820.28	29.87	0.1

SUPPLEMENTARY RDX/HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 31	NEWPORT	846.64	29.39	0.4
( 75/ 75/100)	MTF	743.16	25.92	*****
TEN YR PROD= 2970	MC ALESTER	870.78	30.30	0.1
CASE NO. 32	NEWPORT	828.09	29.22	0.5
( 75/ 75/ 75)	MTF	726.74	25.74	*****
TEN YR PROD= 2700	MC ALESTER	851.86	30.13	0.1
CASE NO. 33	NEWPORT	809.55	29.07	0.5
( 75/ 75/ 50)	MTF	710.31	25.58	*****
TEN YR PROD= 2430	MC ALESTER	832.94	29.97	0.1
CASE NO. 34	NEWPORT	791.00	28.92	0.6
( 75/ 75/ 25)	MTF	693.88	25.42	*****
TEN YR PROD= 2160	MC ALESTER	814.02	29.82	0.1
CASE NO. 35	NEWPORT	772.45	28.78	0.7
( 75/ 75/ 0)	MTF	677.46	25.28	*****
TEN YR PROD= 1890	MC ALESTER	795.10	29.69	0.1
CASE NO. 36	NEWPORT	821.96	29.17	0.5
( 75/ 50/100)	MTF	721.30	25.69	*****
TEN YR PROD= 2700	MC ALESTER	845.59	30.08	0.1
CASE NO. 37	NEWPORT	803.41	29.01	0.5
( 75/ 50/ 75)	MTF	704.87	25.53	*****
TEN YR PROD= 2430	MC ALESTER	826.67	29.92	0.1
CASE NO. 38	NEWPORT	784.86	28.87	0.6
( 75/ 50/ 50)	MTF	688.45	25.37	*****
TEN YR PROD= 2160	MC ALESTER	807.75	29.78	0.1
CASE NO. 39	NEWPORT	766.31	28.73	0.7
( 75/ 50/ 25)	MTF	672.02	25.23	*****
TEN YR PROD= 1890	MC ALESTER	788.83	29.65	0.1
CASE NO. 40	NEWPORT	747.76	28.61	0.8
( 75/ 50/ 0)	MTF	655.60	25.10	*****
TEN YR PROD= 1620	MC ALESTER	769.91	29.52	0.2

SUPPLEMENTARY RDX/HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST / SENSITIVITY / RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 41	NEWPORT	797.27	28.97	0.6
( 75/ 25/100)	MTF	699.44	25.47	*****
TEN YR PROD= 2430	MC ALESTER	820.41	29.87	0.1
CASE NO. 42	NEWPORT	778.12	28.42	0.6
( 75/ 25/ 75)	MTF	683.01	25.33	*****
TEN YR PROD= 2160	MC ALESTER	801.49	29.73	0.1
CASE NO. 43	NEWPORT	760.17	28.69	0.7
( 75/ 25/ 50)	MTF	666.58	25.19	*****
TEN YR PROD= 1890	MC ALESTER	782.57	29.60	0.1
CASE NO. 44	NEWPORT	741.62	28.51	0.8
( 75/ 25/ 25)	MTF	650.16	25.06	*****
TEN YR PROD= 1620	MC ALESTER	763.65	29.48	0.2
CASE NO. 45	NEWPORT	723.07	28.46	0.9
( 75/ 25/ 0)	MTF	633.73	24.95	*****
TEN YR PROD= 1350	MC ALESTER	744.73	29.38	0.2
CASE NO. 46	NEWPORT	772.58	28.78	0.7
( 75/ 0/100)	MTF	677.57	25.28	*****
TEN YR PROD= 2160	MC ALESTER	795.23	29.69	0.1
CASE NO. 47	NEWPORT	754.03	28.65	0.7
( 75/ 0/ 75)	MTF	661.15	25.15	*****
TEN YR PROD= 1890	MC ALESTER	776.31	29.56	0.2
CASE NO. 48	NEWPORT	735.48	28.54	0.8
( 75/ 0/ 50)	MTF	644.72	25.03	*****
TEN YR PROD= 1620	MC ALESTER	757.39	29.45	0.2
CASE NO. 49	NEWPORT	716.94	28.43	1.0
( 75/ 0/ 25)	MTF	628.30	24.92	*****
TEN YR PROD= 1350	MC ALESTER	738.47	29.34	0.2
CASE NO. 50	NEWPORT	698.39	28.34	1.1
( 75/ 0/ 0)	MTF	611.87	24.82	*****
TEN YR PROD= 1080	MC ALESTER	719.55	29.25	0.3

SUPPLEMENTARY RDX/HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 51	NEWPORT	825.26	29.20	0.5
( 50/100/100)	MTF	724.22	25.72	*****
TEN YR PROD= 2880	MC ALESTER	848.96	30.10	0.1
CASE NO. 52	NEWPORT	806.71	29.04	0.5
( 50/100/ 75)	MTF	707.80	25.55	*****
TEN YR PROD= 2610	MC ALESTER	830.04	29.95	0.1
CASE NO. 53	NEWPORT	788.16	28.89	0.6
( 50/100/ 50)	MTF	691.37	25.40	*****
TEN YR PROD= 2340	MC ALESTER	811.12	29.80	0.1
CASE NO. 54	NEWPORT	769.61	28.76	0.7
( 50/100/ 25)	MTF	674.94	25.26	*****
TEN YR PROD= 2070	MC ALESTER	792.20	29.67	0.1
CASE NO. 55	NEWPORT	751.06	28.63	0.8
( 50/100/ 0)	MTF	658.52	25.13	*****
TEN YR PROD= 1800	MC ALESTER	773.28	29.54	0.2
CASE NO. 56	NEWPORT	800.57	28.79	0.5
( 50/ 75/100)	MTF	702.36	25.50	*****
TEN YR PROD= 2610	MC ALESTER	823.78	29.90	0.1
CASE NO. 57	NEWPORT	782.02	28.85	0.6
( 50/ 75/ 75)	MTF	685.93	25.35	*****
TEN YR PROD= 2340	MC ALESTER	804.86	29.76	0.1
CASE NO. 58	NEWPORT	763.47	28.71	0.7
( 50/ 75/ 50)	MTF	669.51	25.21	*****
TEN YR PROD= 2070	MC ALESTER	785.94	29.63	0.1
CASE NO. 59	NEWPORT	744.92	28.59	0.8
( 50/ 75/ 25)	MTF	653.08	25.09	*****
TEN YR PROD= 1800	MC ALESTER	767.02	29.51	0.2
CASE NO. 60	NEWPORT	726.38	28.48	0.9
( 50/ 75/ 0)	MTF	636.66	24.97	*****
TEN YR PROD= 1530	MC ALESTER	748.10	29.40	0.2



SUPPLEMENTARY RDX/HMX SITE SELECTION  
FOUR LINE CAPACITY

COST /SENSITIVITY /RISK

INCREASE IN NEWPORT AAP COSTS

CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%

(COST IN \$MILLION DISCOUNTED AT 10%)

(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 61	NEWPORT	775.88	28.80	0.6
( 50/ 50/100)	MTF	680.50	25.30	*****
TEN YR PROD= 2340	MC ALESTER	798.60	29.71	0.1
CASE NO. 62	NEWPORT	757.33	28.67	0.7
( 50/ 50/ 75)	MTF	664.07	25.17	*****
TEN YR PROD= 2070	MC ALESTER	779.67	29.58	0.1
CASE NO. 63	NEWPORT	738.78	28.56	0.8
( 50/ 50/ 50)	MTF	647.64	25.05	*****
TEN YR PROD= 1800	MC ALESTER	760.75	29.47	0.2
CASE NO. 64	NEWPORT	720.24	28.45	0.9
( 50/ 50/ 25)	MTF	631.22	24.93	*****
TEN YR PROD= 1530	MC ALESTER	741.83	29.36	0.2
CASE NO. 65	NEWPORT	701.69	28.35	1.1
( 50/ 50/ 0)	MTF	614.79	24.83	*****
TEN YR PROD= 1260	MC ALESTER	722.91	29.27	0.2
CASE NO. 66	NEWPORT	751.19	28.63	0.8
( 50/ 25/100)	MTF	658.63	25.13	*****
TEN YR PROD= 2070	MC ALESTER	773.41	29.54	0.2
CASE NO. 67	NEWPORT	732.64	28.52	0.9
( 50/ 25/ 75)	MTF	642.21	25.01	*****
TEN YR PROD= 1800	MC ALESTER	754.49	29.43	0.2
CASE NO. 68	NEWPORT	714.10	28.42	1.0
( 50/ 25/ 50)	MTF	625.78	24.90	*****
TEN YR PROD= 1530	MC ALESTER	735.57	29.33	0.2
CASE NO. 69	NEWPORT	695.55	28.32	1.1
( 50/ 25/ 25)	MTF	609.36	24.80	*****
TEN YR PROD= 1260	MC ALESTER	716.65	29.24	0.3
CASE NO. 70	NEWPORT	677.00	28.24	1.3
( 50/ 25/ 0)	MTF	592.93	24.72	*****
TEN YR PROD= 990	MC ALESTER	697.73	29.16	0.3

SUPPLEMENTARY RDX/HMX SITE SELECTION  
FOUR LINE CAPACITY  
COST /SENSITIVITY /RISK  
INCREASE IN NEWPORT AAP COSTS  
CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
(COST IN \$MILLION DISCOUNTED AT 10%)  
(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 71	NEWPORT	726.50	28.48	0.9
( 50/ 0/100)	MTF	636.77	24.97	*****
TEN YR PROD= 1800	MC ALESTER	748.23	29.40	0.2
CASE NO. 72	NEWPORT	707.96	28.38	1.0
( 50/ 0/ 75)	MTF	620.35	24.87	*****
TEN YR PROD= 1530	MC ALESTER	729.31	29.30	0.2
CASE NO. 73	NEWPORT	689.41	28.30	1.2
( 50/ 0/ 50)	MTF	603.92	24.77	*****
TEN YR PROD= 1260	MC ALESTER	710.39	29.21	0.3
CASE NO. 74	NEWPORT	670.86	28.22	1.3
( 50/ 0/ 25)	MTF	587.49	24.69	*****
TEN YR PROD= 990	MC ALESTER	691.47	29.14	0.3
CASE NO. 75	NEWPORT	652.31	28.15	1.5
( 50/ 0/ 0)	MTF	571.07	24.63	*****
TEN YR PROD= 720	MC ALESTER	672.55	29.07	0.4
CASE NO. 76	NEWPORT	779.18	28.83	0.6
( 25/100/100)	MTF	683.42	25.33	*****
TEN YR PROD= 2520	MC ALESTER	801.96	29.74	0.1
CASE NO. 77	NEWPORT	760.63	28.70	0.7
( 25/100/ 75)	MTF	666.99	25.19	*****
TEN YR PROD= 2250	MC ALESTER	783.04	29.61	0.1
CASE NO. 78	NEWPORT	742.08	28.58	0.8
( 25/100/ 50)	MTF	650.57	25.07	*****
TEN YR PROD= 1980	MC ALESTER	764.12	29.49	0.2
CASE NO. 79	NEWPORT	723.54	28.47	0.9
( 25/100/ 25)	MTF	634.14	24.95	*****
TEN YR PROD= 1710	MC ALESTER	745.20	29.38	0.2
CASE NO. 80	NEWPORT	704.99	28.37	1.0
( 25/100/ 0)	MTF	617.72	24.85	*****
TEN YR PROD= 1440	MC ALESTER	726.28	29.28	0.2

SUPPLEMENTARY RDX/HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTLS= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 81	NEWPORT	754.49	28.65	0.7
( 25/ 75/100)	MTF	661.56	25.15	*****
TEN YR PROD= 2250	MC ALESTER	776.78	29.57	0.1
CASE NO. 82	NEWPORT	735.94	28.54	0.8
( 25/ 75/ 75)	MTF	645.13	25.03	*****
TEN YR PROD= 1980	MC ALESTER	757.86	29.45	0.2
CASE NO. 83	NEWPORT	717.40	28.43	0.9
( 25/ 75/ 50)	MTF	628.70	24.92	*****
TEN YR PROD= 1710	MC ALESTER	738.94	29.35	0.2
CASE NO. 84	NEWPORT	698.85	28.34	1.1
( 25/ 75/ 25)	MTF	612.28	24.82	*****
TEN YR PROD= 1440	MC ALESTER	720.02	29.25	0.2
CASE NO. 85	NEWPORT	680.30	28.26	1.2
( 25/ 75/ 0)	MTF	595.85	24.73	*****
TEN YR PROD= 1170	MC ALESTER	701.10	29.17	0.3
CASE NO. 86	NEWPORT	729.80	28.50	0.9
( 25/ 50/100)	MTF	639.69	24.99	*****
TEN YR PROD= 1980	MC ALESTER	751.60	29.42	0.2
CASE NO. 87	NEWPORT	711.26	28.40	1.0
( 25/ 50/ 75)	MTF	623.27	24.88	*****
TEN YR PROD= 1710	MC ALESTER	732.68	29.32	0.2
CASE NO. 88	NEWPORT	692.71	28.31	1.1
( 25/ 50/ 50)	MTF	606.84	24.79	*****
TEN YR PROD= 1440	MC ALESTER	713.75	29.23	0.3
CASE NO. 89	NEWPORT	674.16	28.23	1.3
( 25/ 50/ 25)	MTF	590.42	24.71	*****
TEN YR PROD= 1170	MC ALESTER	694.83	29.15	0.3
CASE NO. 90	NEWPORT	655.61	28.17	1.5
( 25/ 50/ 0)	MTF	573.99	24.64	*****
TEN YR PROD= 900	MC ALESTER	675.91	29.08	0.4

SUPPLEMENTARY RDX/HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK (%)
CASE NO. 91 ( 25/ 25/100)	NEWPORT MTF	705.12 617.83	28.37 24.85	1.0 *****
TEN YR PROD= 1710	MC ALESTER	726.41	29.28	0.2
CASE NO. 92 ( 25/ 25/ 75)	NEWPORT MTF	686.57 601.41	28.28 24.76	1.2 *****
TEN YR PROD= 1440	MC ALESTER	707.49	29.20	0.3
CASE NO. 93 ( 25/ 25/ 50)	NEWPORT MTF	668.02 584.98	28.21 24.68	1.3 *****
TEN YR PROD= 1170	MC ALESTER	688.57	29.13	0.3
CASE NO. 94 ( 25/ 25/ 25)	NEWPORT MTF	649.47 568.55	28.15 24.62	1.5 *****
TEN YR PROD= 900	MC ALESTER	669.65	29.06	0.4
CASE NO. 95 ( 25/ 25/ 0)	NEWPORT MTF	630.92 552.13	28.09 24.56	1.7 *****
TEN YR PROD= 630	MC ALESTER	650.73	29.01	0.5
CASE NO. 96 ( 25/ 0/100)	NEWPORT MTF	680.43 595.97	28.26 24.73	1.2 *****
TEN YR PROD= 1440	MC ALESTER	701.23	29.17	0.3
CASE NO. 97 ( 25/ 0/ 75)	NEWPORT MTF	661.88 579.54	28.19 24.66	1.4 *****
TEN YR PROD= 1170	MC ALESTER	682.31	29.10	0.4
CASE NO. 98 ( 25/ 0/ 50)	NEWPORT MTF	643.33 563.12	28.13 24.60	1.6 *****
TEN YR PROD= 900	MC ALESTER	663.39	29.05	0.4
CASE NO. 99 ( 25/ 0/ 25)	NEWPORT MTF	624.78 546.69	28.08 24.55	1.8 *****
TEN YR PROD= 630	MC ALESTER	644.47	29.00	0.5
CASE NO. 100 ( 25/ 0/ 0)	NEWPORT MTF	606.24 530.27	28.04 24.51	2.1 *****
TEN YR PROD= 360	MC ALESTER	625.55	28.96	0.6



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## SUPPLEMENTARY RDX/HMX SITE SELECTION

## FOUR LINE CAPACITY

## COST / SENSITIVITY / RISK

## INCREASE IN NEWPORT AAP COSTS

CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%

(COST IN \$MILLION DISCOUNTED AT 10%)

(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 101	NEWPORT	733.10	28.52	0.9
( 0/100/100)	MTF	642.62	25.01	*****
TEN YR PROD= 2160	MC ALESTER	754.96	29.43	0.2
CASE NO. 102	NEWPORT	714.56	28.42	1.0
( 0/100/ 75)	MTF	626.19	24.90	*****
TEN YR PROD= 1890	MC ALESTER	736.04	29.33	0.2
CASE NO. 103	NEWPORT	696.01	28.33	1.1
( 0/100/ 50)	MTF	609.77	24.81	*****
TEN YR PROD= 1620	MC ALESTER	717.12	29.24	0.3
CASE NO. 104	NEWPORT	677.46	28.25	1.3
( 0/100/ 25)	MTF	593.34	24.72	*****
TEN YR PROD= 1350	MC ALESTER	698.20	29.16	0.3
CASE NO. 105	NEWPORT	658.91	28.18	1.4
( 0/100/ 0)	MTF	576.91	24.65	*****
TEN YR PROD= 1080	MC ALESTER	679.28	29.09	0.4
CASE NO. 106	NEWPORT	708.42	28.39	1.0
( 0/ 75/100)	MTF	620.75	24.87	*****
TEN YR PROD= 1890	MC ALESTER	729.78	29.30	0.2
CASE NO. 107	NEWPORT	689.87	28.30	1.1
( 0/ 75/ 75)	MTF	604.33	24.78	*****
TEN YR PROD= 1620	MC ALESTER	710.86	29.21	0.3
CASE NO. 108	NEWPORT	671.32	28.22	1.3
( 0/ 75/ 50)	MTF	587.90	24.70	*****
TEN YR PROD= 1350	MC ALESTER	691.94	29.14	0.3
CASE NO. 109	NEWPORT	652.77	28.16	1.5
( 0/ 75/ 25)	MTF	571.48	24.63	*****
TEN YR PROD= 1080	MC ALESTER	673.02	29.07	0.4
CASE NO. 110	NEWPORT	634.22	28.10	1.7
( 0/ 75/ 0)	MTF	555.05	24.57	*****
TEN YR PROD= 810	MC ALESTER	654.10	29.02	0.5

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## SUPPLEMENTARY RDX/HMX SITE SELECTION

FOUR LINE CAPACITY

COST / SENSITIVITY / RISK

INCREASE IN NEWPORT AAP COSTS

CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%

(COST IN \$MILLION DISCOUNTED AT 10%)

(QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 111	NEWPORT	683.73	28.27	1.2
( 0/ 50/100)	MTF	598.89	24.75	*****
TEN YR PROD= 1620	MC ALESTER	704.60	29.19	0.3
CASE NO. 112	NEWPORT	665.18	28.20	1.4
( 0/ 50/ 75)	MTF	582.47	24.67	*****
TEN YR PROD= 1350	MC ALESTER	685.68	29.12	0.3
CASE NO. 113	NEWPORT	646.63	28.14	1.6
( 0/ 50/ 50)	MTF	566.04	24.61	*****
TEN YR PROD= 1080	MC ALESTER	666.75	29.05	0.4
CASE NO. 114	NEWPORT	628.09	28.09	1.8
( 0/ 50/ 25)	MTF	549.61	24.56	*****
TEN YR PROD= 810	MC ALESTER	647.83	29.01	0.5
CASE NO. 115	NEWPORT	609.54	28.05	2.0
( 0/ 50/ 0)	MTF	533.19	24.52	*****
TEN YR PROD= 540	MC ALESTER	628.91	28.97	0.6
CASE NO. 116	NEWPORT	659.04	28.18	1.4
( 0/ 25/100)	MTF	577.03	24.65	*****
TEN YR PROD= 1350	MC ALESTER	679.41	29.09	0.4
CASE NO. 117	NEWPORT	640.49	28.12	1.6
( 0/ 25/ 75)	MTF	560.60	24.59	*****
TEN YR PROD= 1080	MC ALESTER	660.49	29.04	0.4
CASE NO. 118	NEWPORT	621.95	28.07	1.9
( 0/ 25/ 50)	MTF	544.18	24.54	*****
TEN YR PROD= 810	MC ALESTER	641.57	28.99	0.5
CASE NO. 119	NEWPORT	603.40	28.04	2.1
( 0/ 25/ 25)	MTF	527.75	24.51	*****
TEN YR PROD= 540	MC ALESTER	622.65	28.96	0.6
CASE NO. 120	NEWPORT	584.85	28.02	2.4
( 0/ 25/ 0)	MTF	511.33	24.48	*****
TEN YR PROD= 270	MC ALESTER	603.73	28.94	0.7

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SUPPLEMENTARY RDX/HMX SITE SELECTION  
 FOUR LINE CAPACITY  
 COST /SENSITIVITY /RISK  
 INCREASE IN NEWPORT AAP COSTS  
 CONST= 0%, MTL= 0% UTL= 0%, LBR= 0%, TRANS= 0%  
 (COST IN \$MILLION DISCOUNTED AT 10%)  
 (QUANTITIES IN MILLIONS OF LBS.)

IDENTIFICATION	SITE	COST	SIGMA	RISK(%)
CASE NO. 121	NEWPORT	634.35	28.10	1.7
( 0/ 0/100)	MTF	555.17	24.57	*****
TEN YR PROD= 1080	MC ALESTER	654.23	29.02	0.5
CASE NO. 122	NEWPORT	615.81	28.06	1.9
( 0/ 0/ 75)	MTF	538.74	24.53	*****
TEN YR PROD= 810	MC ALESTER	635.31	28.98	0.5
CASE NO. 123	NEWPORT	597.26	28.03	2.2
( 0/ 0/ 50)	MTF	522.32	24.50	*****
TEN YR PROD= 540	MC ALESTER	616.39	28.95	0.7
CASE NO. 124	NEWPORT	578.71	28.01	2.5
( 0/ 0/ 25)	MTF	505.89	24.48	*****
TEN YR PROD= 270	MC ALESTER	597.47	28.93	0.8
CASE NO. 125	NEWPORT	560.16	28.01	2.9
( 0/ 0/ 0)	MTF	489.46	24.47	*****
TEN YR PROD= 0	MC ALESTER	578.55	28.93	0.9

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